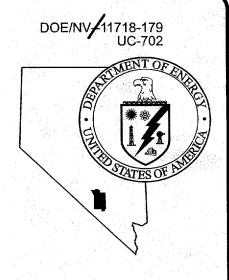
Nevada Environmental Restoration Project





Closure Report for CAU No. 416 Project Shoal Area

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January 1998

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Environmental Restoration Division

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# CLOSURE REPORT FOR CAU 416: PROJECT SHOAL AREA

Prepared for
U. S. Department of Energy
Nevada Operations Office
Under Contract No. DE-AC08-96NV11718

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Revision: 0

Prepared by
Bechtel Nevada
Environmental Restoration Program

January 1998

# CLOSURE REPORT FOR CAU 416: PROJECT SHOAL AREA

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## **ACRONYMS AND ABBREVIATIONS**

AEC U.S. Atomic Energy Commission

CAS Corrective Action Site

CAU Corrective Action Unit

COC Constituent of Concern

CR Closure Report

DOE/NV U.S. Department of Energy, Nevada Operations Office

FFACO Federal Facilities Agreement and Compliance Order

ft feet

ft<sup>2</sup> square feet

gal gallon

in inch

km kilometer

L liter

m meter

m<sup>2</sup> square meter

m<sup>3</sup> cubic meter

mg/kg milligrams per kilogram

mi mile

NDEP Nevada Division of Environmental Protection

NTS Nevada Test Site

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# ACRONYMS AND ABBREVIATIONS (continued)

PSA Project Shoal Area

SAFER Streamlined Approach for Environmental Restoration

TPH Total Petroleum Hydrocarbons

U.S. United States

yd<sup>3</sup> cubic yard

## **EXECUTIVE SUMMARY**

This Closure Report provides the documentation for closure of the United States Department of Energy/Nevada Operations Office (DOE/NV) Project Shoal Area (PSA) Surface Corrective Action Unit (CAU) 416. CAU 416 consists of a mud pit (Corrective Action Site [CAS] 57-09-01), muckpile (CAS 57-06-01), and housekeeping site (CAS 57-98-01). The PSA is located approximately 48.3 kilometers (30 miles) southeast of Fallon, Nevada.

The closure of the PSA CAU 416 has been completed in accordance with the Nevada Division of Environmental Protection approved <u>Streamlined Approach For Environmental Restoration Plan For Corrective Action Unit 416, Mud Pit, Project Shoal Area</u> (DOE, 1997a), <u>Record of Technical Change No. 1 For Streamlined Approach For Environmental Restoration Plan For Corrective Action Unit 416, Mud Pit, Project Shoal Area</u> (DOE, 1997b), and <u>Housekeeping Category Corrective Action Unit Workplan</u> (DOE, 1996).

The mud pit was the result of drilling activities at the PSA in 1963. Investigation activities completed in 1996 determined drilling mud in the mud pit was impacted with petroleum hydrocarbons in excess of the State of Nevada 100 milligram per kilogram (mg/kg) Total Petroleum Hydrocarbon (TPH) Action Level (NAC, 1996). The mud pit closure activities consisted of excavation, transportation, and disposal of approximately 184 cubic meters (m³) (240 cubic yards [yd³]) of petroleum hydrocarbon impacted drilling mud and weathered granite, verification sampling and analysis, and regrading of the mud pit area. The impacted materials were disposed of in the Area 6 Hydrocarbon Landfill located at the Nevada Test Site (NTS). The verification samples collected from the bottom of the excavation area indicate the materials exceeding the Action Level were successfully removed.

The muckpile consists of broken granite from emplacement shaft and drift (tunnel) mining activities at the PSA in 1963. Approximately 5,000 m³ (6,535 yd³) of broken granite is stockpiled at the surface in an area of approximately 930 square meters (10,000 square feet). Analytical results of samples collected in weathered granite approximately 274 meters (m) (900 feet [ft]) northeast of the muckpile indicate constituents of concern (COC's) do not exceed regulatory action levels. Geological data from a site report (DRI, 1988) indicates the granite removed from the emplacement shaft and drift is similar in composition from the surface to the maximum depth of the shaft (402 m [1,320 ft]).

The housekeeping site consisted of approximately 20 used, empty, rusted, steel 0.9 liter (1 quart) oil cans. The oil cans were potentially from the site activities in the 1960's based upon the construction material and style of can. The cans were removed from the site and disposed of the Area 23 Landfill located at the NTS.

The DOE/NV requests the Nevada Division of Environmental Protection to issue a Notice of Completion and move the Project Shoal Area Surface CAU 416 (CAS 57-09-01, CAS 57-06-01, and CAS 57-98-01) from Appendix III to Appendix IV of the Federal Facility Agreement and

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Consent Order because the following corrective action activities were completed as proposed:

- The impacted materials exceeding the 100 mg/kg TPH Action Limit were removed and properly disposed of from the mud pit (CAS 57-09-01).
- The process knowledge (analytical results from the weathered granite samples and site geological data) indicates no COC's exceed regulatory levels in the muckpile (CAS 57-06-01).
- The housekeeping site (CAS 57-98-01) was remediated.

## 1.0 INTRODUCTION

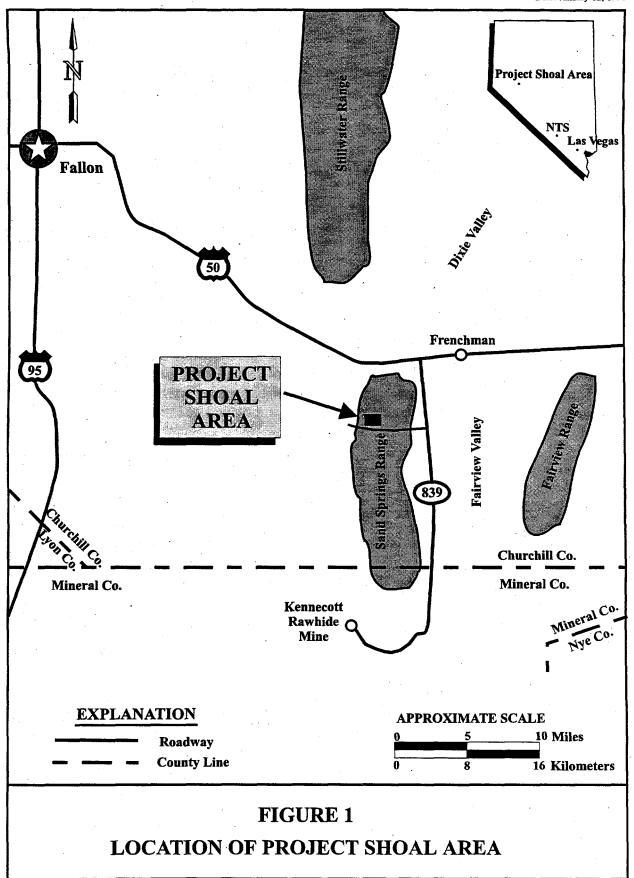
The U.S. Department of Energy, Nevada Operations Office (DOE/NV) operates the Nevada Test Site (NTS) and entered into a trilateral agreement with the state of Nevada and the U.S. Defense Special Weapons Agency. The trilateral agreement, which is entitled the Federal Facilities Agreement and Consent Order (FFACO), provides a framework for identifying, characterizing, remediating, and closing DOE/NV environmental sites in Nevada (NDEP, 1996). Two Corrective Action Units (CAUs) are identified for the DOE/NV Project Shoal Area (PSA) in the FFACO (CAU 416 and CAU 447). The PSA Surface is identified as CAU 416, and the PSA Subsurface is identified as CAU 447.

This Closure Report (CR) provides the documentation for the Streamlined Approach for Environmental Restoration (SAFER) closure of the PSA Surface CAU 416. The PSA is located approximately 48.3 kilometers (km) (30 miles [mi]) southeast of Fallon, Nevada, in the Sand Springs Range of Churchill County (see Figure 1). CAU 416 consists of a mud pit (Corrective Action Site [CAS] 57-09-01), muckpile (CAS 57-06-01), and housekeeping site (CAS 57-98-01).

Project Shoal was part of the Vela Uniform Program, a U.S. Department of Defense and U.S. Atomic Energy Commission (AEC) study to evaluate the effects of different geologic media (e.g., granite) on seismic waves produced by underground nuclear tests and to determine whether seismic waves from underground nuclear tests could be differentiated from seismic waves from naturally occurring earthquakes (DRI, 1988).

The Shoal event was a 12.5-kiloton device detonated on October 26, 1963. The device was placed in granite 369 meters (m) (1,211 feet [ft]) below the ground surface (DOE, 1997a). Emplacement of the device was accomplished by mining an approximate 3.6 m (12 ft) by 1.8 m (6 ft) shaft to approximately 402 m (1,320 ft). A drift (tunnel) was mined from the shaft approximately 320 m (1,050 ft) to the east (AEC, 1970). The muckpile (CAS 57-06-01) was the result of stockpiling the broken granite from the mining activities associated with the construction of the shaft. The muckpile is located approximately 46 m (150 ft) east of the shaft (see Figure 2). The shaft was permanently closed in 1996 by backfilling with materials from the muckpile. Approximately 2,445 cubic meters (m³) (3,200 cubic yards [yd³]) was used to backfill the shaft. Approximately 5,000 m³ (6,535 yd³) of broken granite remains at the surface in an area of approximately 930 square meters (m²) (10,000 square ft [ft²]).

The mud pit was constructed in a natural drainage area approximately 350 m (1150 ft) east of the emplacement shaft (Figure 2). The mud pit was used to contain drilling effluent and cuttings from the Post Shot Borehole PS-1 in 1963. During drilling activities for Post Shot Borehole PS-1, short-lived gaseous radionuclides (iodine-131, xenon 131m, and xenon-133) were brought to the surface through the drill rig effluent vent-line system (DOE, 1997a). The radionuclides were



CR - CAU No.416 Section: Introduction Project Shoal Revision: 0 Date: January 12, 1998 Housekeeping Site (CAS 57-98-01) Mud Pit CAS 57-09-01) Surface Ground Zero FIGURE 2 Reference: USGS 1980 Chukar Canyon, NV (7.5 minute quadrangle) USGS 1979 Fourmile Canyon, NV (7.5 minute quadrangle) Sample Locations DP-15, DP-16, DP-17 Project Shoal 0 Muck Pile (CAS 57-06-01) Emplacement 0 Shaft 0 304 Meters 1000 Feet Approximate Scale 500 152

PROJECT SHOAL AREA SITE MAP

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trapped by filters and were subsequently mixed with clean soil and buried in the mud pit (DOE, 1997a). Results from the 1996 characterization activities indicated that no radionuclides were detected above expected values for a granitic terrain; however, Total Petroleum Hydrocarbons (TPH) as diesel and oil were detected above the 100 mg/kg action level (NAC, 1996). The diesel and oil are suspected to have been used in the drilling mud. No other constituents were detected exceeding regulatory limits (DOE, 1997a).

The housekeeping site is located approximately 701 m (2,300 ft) southeast of the mudpit (Figure 2). The housekeeping site consisted of approximately 20 used, empty, rusted, steel 0.9 liter (1 quart) oil cans. The oil cans were potentially from the site activities in the 1960's based upon the construction material and style of can.

DOE/NV proposed to close the mud pit by excavating and disposing of the TPH impacted materials which exceeded the 100 milligram per kilogram (mg/kg) Action Level (NAC, 1996) in July 1997 (DOE, 1997a). The process knowledge to support closure in-place of the muckpile by no further action was proposed to be added to the SAFER Closure Plan in a Record of Technical Change in September 1997 (DOE, 1997b). Remediation of the housekeeping site using the Housekeeping Site Work Plan (DOE, 1996) with the documentation for closure to be included in the CR was proposed on August 13, 1997 (DOE, 1997c).

The Nevada Division of Environmental Protection (NDEP) approved the proposed activities in the SAFER Closure Plan on August 5, 1997 (NDEP, 1997a). The Record of Technical Change (DOE, 1997b) and proposal to remediate the housekeeping site using the Housekeeping Site Work Plan (DOE, 1996) were recorded as approved on September 19, 1997 (NDEP, 1997b).

The Field closure activities began on August 17, 1997 and were completed on August 27, 1997.

#### 1.1 PURPOSE

The purpose of this CR is to:

- provide the information collected during the closure activities as proposed in the SAFER Plan (DOE, 1997a), Record of Technical Change (DOE, 1997b), and Housekeeping Site Work Plan (DOE, 1996).
- Obtain a Notice of Completion from the NDEP.
- Recommend the movement of CAU 416 from Appendix III to Appendix IV of the FFACO.

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### 1.2 SCOPE

The following remedial actions implemented for the closure of the mud pit (CAS 57-09-01) were:

- Excavated and removed of impacted materials from the mud pit area which exceeded the 100 mg/kg TPH Action Level.
- Conducted verification sampling at the bottom of the excavation in the area of the mud pit to confirm TPH concentrations were below the 100 mg/kg Action Level.
- Transported and disposed of the excavated hydrocarbon impacted materials in the Area 6 Hydrocarbon Landfill located at the Nevada Test Site (NTS).
- Regraded the mud pit area using soil from the mud pit retention berm.

The scope of work for the muckpile (CAS 57-06-01) was to provide sufficient information to close the muckpile in-place with no further action. Remedial activities for the housekeeping site (CAS 57-98-01) consisted of removal and disposal of the debris (approximately 20 used steel oil cans). Closure activities and justifications for closure of the mud pit, muckpile, and housekeeping site are documented in the following sections and appendices.

#### 1.3 CLOSURE REPORT CONTENTS

This CR is divided into the following sections:

- Section 1.0 Introduction: Site background, purpose, scope, and report contents
- Section 2.0 Closure Activities: Corrective action activities, deviations from SAFER Plan as approved, corrective action schedule as completed, and site plan
- Section 3.0 Waste Disposition
- Section 4.0 Closure Verification Results
- Section 5.0 Conclusions
- Section 6.0 References
- Appendix A Laboratory Analytical Results, Granite Samples Near Muckpile
- Appendix B Housekeeping Site Closure Verification Documentation
- Appendix C Waste Disposal Documentation

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- Appendix D Laboratory Analytical Results, Mud Pit Verification Samples
   This report was developed using information and guidance from the following documents:
- <u>CERCLA Preliminary Assessment of DOE's Nevada Operations Office Nuclear Weapons Testing Areas</u>. Desert Research Institute, 1988.
- Corrective Action Investigation Plan for Project Shoal Area, CAU No. 416, DOE, 1996.
- Housekeeping Category Corrective Action Unit Workplan, Rev. 0, DOE, August 1996.
- Nevada Environmental Restoration Project, Health and Safety Plan, DOE, 1996.
- Nevada Environmental Restoration Project, Industrial Sites, Quality Assurance Project Plan, Nevada Test Site, Revision 1, DOE, 1996.
- Nevada Environmental Restoration Project, Project Management Plan, DOE, 1994.
- Record of Technical Change No. 1 For Streamlined Approach For Environmental Restoration <u>Plan For Corrective Action Unit 416, Mud Pit, Project Shoal Area</u>, Rev. 1, DOE, August 8, 1997.
- Streamlined Approach For Environmental Restoration Plan For Corrective Action Unit 416, Mud Pit, Project Shoal Area, Rev. 1, DOE, July 1997.

## 2.0 CLOSURE ACTIVITIES

This section of the CR details the specific activities involved in the closure of the PSA mud pit (CAS 57-09-01), the process knowledge to support closure in-place of the muckpile (CAS 57-06-01) with no further action, and the remedial activities to close the housekeeping site (CAS 57-98-01). This section also includes the rationale for any deviations from the approved SAFER Plan (DOE, 1997a) and a detailed schedule of site activities as completed.

## 2.1 DESCRIPTION OF CORRECTIVE ACTION ACTIVITIES

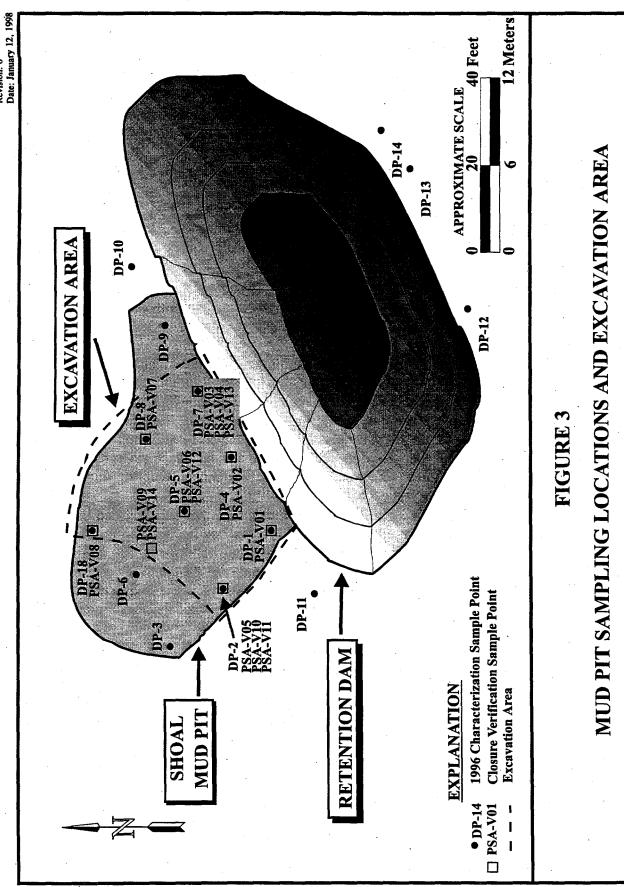
#### 2.1.1 Mud Pit

Prior to excavating the hydrocarbon impacted materials in the mud pit, a site clearance for excavation was obtained by reviewing As-Built Engineering Drawings and contacting "Call Before You Dig." Subsurface utilities were not identified in the area of the excavation activities.

All sample location stakes from the 1996 characterization activities were located at the site prior to excavation activities which facilitated demarcation of the excavation area in relation to the 1996 sample points. The soil was excavated to an approximate depth of 0.6 m (2.0 ft) to 0.9 m (3.0 ft) in an approximate area of 250 m<sup>2</sup> (2,700 ft<sup>2</sup>) between August 18, 1997 and August 25, 1997. A front end loader was used to excavate and stockpile the excavated material. A backhoe equipped with a bucket without excavating teeth was used to cut and scrape the bottom and edges of the excavation as a waste volume reduction activity. Confirmational sampling activities and analytical results are discussed in Section 4.0.

Two phases of excavation were required to remove the hydrocarbon impacted soils above the 100 mg/kg TPH Action Level. The first phase of excavation consisted of removing approximately 0.6 m (2.0 ft) of hydrocarbon impacted drilling mud and weathered granite followed by verification sampling and analysis. A second phase of excavation was required in the approximate northern one-third to one-half of the excavation area based upon analytical results of samples collected from the base of the excavation on August 19, 1997 (Figure 3). During the second phase of excavation, an additional approximate 0.3 m (1 ft) was removed and placed in the soil stockpile area as described previously.

All excavated soil was stockpiled approximately 30 m (100 ft) south of the mud pit (adjacent to the site access road) on two layers of 10 mil (0.01 inch [in]) plastic. At the end of each excavation day, the excavated soil was covered with 10 mil (0.01 in) plastic and weighted on the edges for stabilization and management purposes.



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The excavation equipment buckets were cleaned after completion of the excavation and loading activities. Site personnel used brooms and hand sprayers containing Alconox<sup>TM</sup> and tap water to clean the equipment buckets. Approximately 7.6 liters (L) (2 gallons [gal]) of water was used to clean the equipment. The cleaning activities were conducted over the final end-dump truck loaded with the hydrocarbon impacted soil excavated from the mud pit area. The final end-dump truck contained approximately 15.3 m³ (20 yd³) of impacted soil. For the discussion regarding waste management and disposal, see Section 3.0.

On August 27, 1997, analytical results were received indicating TPH concentrations were below the 100 mg/kg Action Level at all sample locations. Upon receipt of the results, the retention dam located on the south side of the mud pit was removed and used for backfill in the mud pit area. The area was graded as proposed in the SAFER Plan (DOE, 1997a). The area immediately south of the retention dam was regraded to blend with the adjacent topography.

Water for dust suppression activities associated with the excavation and regrading activities was obtained from the City of Fallon through Stockman's Equipment in Fallon, Nevada and the Kennecott Rawhide Mine located approximately 11.3 km (7 mi) south of the site (Figure 1). Approximately 15,140 L (4,000 gal) of water were used at the site. Dust suppression was accomplished through the use of the spray bars and hose on the water truck.

## 2.1.2 Muckpile

The PSA muckpile (CAS 57-06-01) consists of broken granite removed from the subsurface during the mining (construction) of the emplacement shaft and drifts (tunnels) in 1963. The broken granite was placed on the existing sloping topographic surface with a maximum relief from natural grade of approximately 5.5 m (18 ft) on the eastern perimeter. The muckpile tapers to meet natural grade on the western perimeter.

In 1996, approximately 2,445 m³ (3,200 yd³) of the muckpile were used to backfill the emplacement shaft. The emplacement shaft was backfilled because small collapse features were observed in the soil adjacent to the existing concrete cover which could pose a threat to the public, livestock, or wildlife at the site. Approximately 5,000 m³ (6,535 yd³) of broken granite remains at the surface in an area of approximately 930 m² (10,000 ft²). See Figure 2 for locations of the emplacement shaft and muckpile.

No remedial activities were taken at the muckpile in 1997. The following details the justification for no action:

• Process knowledge (DOE, 1997b) indicated that the muck pile was created prior to the testing of any nuclear devices at Project Shoal.

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The post-detonation investigation (drill back) operation was conducted at a distance of approximately 320 m (1,050 ft) east of the site and did not affect the broken rock material that comprises the muckpile (AEC, 1970).

- The emplacement shaft and drifts (tunnels) at Project Shoal were constructed by mining into the granitic rocks that comprise the bulk of the Sand Springs Range where the Project Shoal site is located. Based on geologic descriptions of cuttings generated during the drilling efforts near the emplacement shaft in identical rock types, it was determined that the mineral composition of these rocks did not contain metals in greater than background concentrations (DOE, 1997b).
- Samples (DP-15, DP-16, and DP-17) were collected from weathered granite equivalents of the muckpile (approximately 274 m [900 ft] northeast of the muckpile and 150 m [500 ft] north of the mud pit) during the September 1996 mud pit characterization activities (see Figure 2 for sample locations). The weathered granite samples were collected to provide analytical data regarding native background concentrations. Sample analytical results are summarized in Table 1 and are provided in Appendix A. The analytical results indicated no COC's were detected in excess of regulatory limits.
- Recontouring/regrading of the existing muckpile would be of minimal benefit as the resulting surface area would be significantly larger, and the existing native vegetation would be significantly impacted.

Considering the process knowledge presented above, DOE/NV recommends that the muckpile be closed in-place with no further action.

## 2.1.3 Housekeeping Site

The housekeeping site consisted of approximately 20 used, empty, rusted, steel 0.9 liter (1 quart) oil cans. The oil cans were probably generated during site activities in the 1960's based upon the construction material and style of can.

Closure activities consisted of removal and disposal of the empty oil cans and preparation of housekeeping documentation (Housekeeping Closure Verification Form in Appendix B). Copies of the photographs of the site before and after the remedial activities were completed and can be found in the Housekeeping Closure Verification Form (Appendix B). The oil cans were removed from the site on August 19, 1997. No discoloration of the soil adjacent to or below the cans was observed during removal activities. The cans were transported to the NTS for disposal on August 27, 1997. The cans were disposed of in the Area 23 Landfill located at the NTS.

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TABLE 1 - SAMPLE ANALYTICAL RESULTS, GRANITE SAMPLES NEAR MUCKPILE

| Lead-212<br>pCVg     | 1.01      | 0.85      | 1.04      | ND        |
|----------------------|-----------|-----------|-----------|-----------|
| Cestum-137<br>pCl/g  | 0.24 (ND) | 0.23 (ND) | 0.23 (ND) | 0.39 (ND) |
| Bismuth-214<br>pCVg  | 1.03      | 1.36      | 0.82      | ND¢       |
| Gross Beta<br>pCl/g  | 27.1      | 27.3      | 30.0      | 25.8      |
| Gross Alpha<br>pCig* | 23.9      | 25.4      | 35.9      | 27.3      |
| Chromium (<br>mg/kg  | 7.4       | 6.4       | 10.2      | 10.2      |
| Barium<br>mg/kg²     | 104       | 84.2      | 141       | 103       |
| Matrix               | Soil      | Soil      | Soil      | Soil      |
| Sample 1<br>Date     | 96/91/6   | 9/16/96   | 96/91/6   | 9/16/96   |
| Sample<br>Number     | PSS00022  | PSS00023  | PSS00026  | PSS00027  |
| Sample<br>Location   | DP-15     | DP-15     | DP-16     | DP-17     |

| Tritium<br>pCVg        |          | QN       | QN       | QN       |
|------------------------|----------|----------|----------|----------|
| Thorium-234<br>pCVg    | QN       | ND       | 1.87     | ND       |
| Thailliam-208<br>pCl/g | 0.36     | 0.42     |          |          |
| Radium-228<br>pCVg     | 1.23     | ND       | ND       | ND       |
| Radium-226<br>pCVg     | 2.84     | ND       | 3.43     | QN       |
| Lead-214<br>pCl/g      | 0.95     | 0.93     | 0.83     | ND       |
| Potassium-40<br>pCi/g  | 23.2     | 25.4     | 21.2     | 17       |
| Matrix                 | Soil     | Soil     | Soil     | Soil     |
| Sample<br>Date         | 96/91/6  | 96/91/6  | 96/91/6  | 96/91/6  |
| Sample<br>Number       | PSS00022 | PSS00023 | PSS00026 | PSS00027 |
| Sample<br>Location     | DP-15    | DP-15    | DP-16    | DP-17    |

Notes:

amg/kg = milligrams per kilogram

 $^{b}pCi/g = pico$  Curies per gram  $^{c}ND = Not$  detected above laboratory/method limit

#### 2.2 DEVIATIONS FROM SAFER PLAN AS APPROVED

No deviations from the approved SAFER Plan (DOE, 1997a) were implemented in the field for the mud pit closure activities.

A Record of Technical Change (DOE, 1997b) was submitted to the NDEP on September 3, 1997, to provide process knowledge in the CR for the closure in place of the muckpile (CAS 57-06-01) by no further action. Additionally, DOE/NV proposed in DOE, 1997c to remediate the housekeeping site (CAS 57-98-01) using the Housekeeping Site Work Plan (DOE, 1996) and provide the documentation in this CR. The Record of Technical Change (DOE, 1997b) and proposal to remediate the housekeeping site were recorded as approved on October 6, 1997 (NDEP, 1997b).

## 2.3 CORRECTIVE ACTION SCHEDULE AS COMPLETED

The project activities were completed as indicated in Figure 4.

The oil cans were removed from the housekeeping site on August 19, 1997. Transportation and disposal of the housekeeping site waste was completed on August 27, 1997.

The mud pit excavation and stockpiling activities were conducted from August 18, 1997 to August 25, 1997. The mud pit waste disposal activities were conducted on August 25 and 26, 1997. The verification samples were collected on August 19 and 25, 1997. Analytical results indicating the impacted materials exceeding the 100 mg/kg TPH action level were removed were received on August 27, 1997. Regrading and demobilization activities were completed on August 27, 1997.

#### 2.4 SITE PLAN/SURVEY PLAT

A site plan reflecting the areas of closure activity addressed in this report is provided as Figure 2. As-Built surveys of the mud pit and muckpile areas were not proposed in the SAFER Plan (DOE, 1997a) or Record of Technical Change (DOE, 1997b) and were not implemented during or after field activities.

CR - CAU No. 416 Section: Closure Activities Project Shoal Revision: 0 Date: January 12, 1998

| Project Shoal Area Surface Closure  CAU 416  10 Mobilize to site  20 Excavate mud pit & stockpile materials 21 Housekeeping site remediation 32 Phase 1 verification sample analysis 40 Phase 1 verification sample analysis 50 Analytical result receipt/data evaluation 60 Excavate mud pit & stockpile materials 70 Phase 2 verification sample analysis 70 Phase 2 verification sample analysis 70 Load & transport 6 loads of soil to NTS 70 Load & transport 6 loads of soil to NTS 710 Load & transport 6 loads of soil to NTS 720 Phase 2 verification sample analysis 731 Phase 2 verification sample analysis 742 Phase 2 verification sample analysis 753 Phase 6 Verification sample analysis 754 Phase 7 verification sample analysis 755 Phase 7 verification sample analysis 766 Phase 7 verification sample analysis 777 Phase 8 verification sample analysis 788 Phase 9 verification sample analysis 799 Phase 9 verification sample analysis 710 Coad & transport 6 loads of soil to NTS 7110 Analytical result receipt/data evaluation 7120 Remove berm & regrade area 7120 Remove berm & regrade area 7130 Demobilize from sife |
|--|
|--|

## 3.0 WASTE DISPOSITION

### 3.1 WASTE MANAGEMENT ACTIVITIES

The excavated soil from the mud pit was stockpiled on and covered with plastic approximately 30 m (100 ft) south of the mud pit and adjacent to the site access road. The soil was stockpiled on two layers of 10 mil (0.01 in) plastic, covered with 10 mil (0.01 in) plastic, and weighted on the edges for stabilization and management purposes. Excavation and stockpiling activities were conducted from August 18, 1997 to August 25, 1997.

Approximately 7.6 L (2 gal) of rinsate were generated from cleaning the excavation equipment buckets on August 26, 1997. The excavation equipment was cleaned with brooms and a light spray of Alconox<sup>TM</sup> and tap water from a hand sprayer. The cleaning activities were conducted over the final end-dump truck loaded with the last hydrocarbon impacted soil excavated from the mud pit area. The final end-dump truck contained approximately 15.3 m<sup>3</sup> (20 yd<sup>3</sup>) of impacted soil and the plastic used to underlay and cover the excavated soil stockpile.

To eliminate the cleaning of the end-dump trucks (and the generation of additional equipment rinsate), 10 mil (0.01 in) plastic was placed in each end dump truck prior to loading with soil. The trucks were also covered with a tarpaulin to comply with U.S. Department of Transportation regulations and requirements prior to transportation of the soil from the site to the Area 6 Hydrocarbon Landfill located at the NTS.

The used oil cans from the housekeeping site were removed from the site, placed in a plastic bag, and stored in a site vehicle on August 19, 1997. The housekeeping waste was transported to the NTS on August 27, 1997.

#### 3.2 WASTE DISPOSAL

Mud pit waste disposal activities were conducted on August 25 and 26, 1997. Twelve approximately 15.3 m³ (20 yd³) loads of hydrocarbon impacted materials (drill cuttings, soil, weathered granite, and the plastic used to underlay and cover the soil stockpile) were disposed in the Area 6 Hydrocarbon Landfill located at the NTS. The total weight of material transported from the mud pit and disposed of in the Area 6 Hydrocarbon Landfill was approximately 294,800 kilograms (649,922 pounds). Copies of the Bills of Ladings, Weight Tickets, and Material Clearances (radiological green tags) required for disposal at the Area 6 Hydrocarbon Landfill can be found in Appendix C.

The used oil cans from the housekeeping site were disposed of in the NTS Area 23 Landfill on August 27, 1997. A copy of the Housekeeping Closure Verification Form and Material Clearance (radiological green tag) can be found in Appendix B.

## 4.0 CLOSURE VERIFICATION RESULTS

Closure verification results are applicable for the mud pit and housekeeping site. The process knowledge (analytical results of granite samples collected near the muckpile and site geological data) for the closure of the muckpile is presented in Section 2.1.3. Two phases of excavation and verification sampling activities were required to remove the hydrocarbon impacted drilling mud and weathered granite from the mud pit area.

#### 4.1 MUD PIT

## 4.1.1 First Phase Of Verification Sampling/Analysis

After removal of the hydrocarbon contaminated material from the mud pit, nine samples were collected from the bottom of the excavation area at eight sample points. Two samples were collected at the same location (Sample PSA-V04 is a field duplicate of Sample PSA-V03). The eight sample points were collected at the approximate locations of the 1996 direct-push characterization samples that exceeded the 100 mg/kg Action Level (DOE, 1997a). See Figure 3 for the locations of the 1996 characterization sample points and the verification sample points.

The verification samples were collected on August 19, 1997, from the exposed surface in the excavated area in accordance with the SAFER Plan (DOE, 1997a). Samples were collected using clean stainless-steel trowels. The samples were placed in 250 milliliter (8 ounce) glass jars, sealed, labeled, and stored in an ice-filled cooler pending delivery to the analytical laboratory. The samples were hand-carried to NEL Laboratories in Reno, Nevada, to be analyzed for TPH by method SW 846-8015 Modified. A 24-hour turn-around on the analyses was requested; however, problems with the laboratory equipment resulted in a 48-hour turn-around. The results were received and evaluated on August 22, 1997.

Analytical results are summarized in Table 2 and are provided in Appendix D. TPH concentrations for the nine verification samples ranged from below 15 mg/kg to 170 mg/kg. Five samples (PSA-V03, PSA-V04 [field duplicate of PSA-V03], PSA-V05, PSA-V06, and PSA-V09) exceeded the action level of 100 mg/kg. Results for these samples ranged from 110 mg/kg to 170 mg/kg TPH. The location of the samples exceeding the 100 mg/kg action level was confined to the approximate northern half of the excavation area (Figure 3).

## 4.1.2 Second Phase Of Verification Sampling/Analysis

The second phase of excavation activities was initiated in the approximate northern half of the excavation area on August 25, 1997, after receipt and evaluation of the results indicating the 100 mg/kg TPH action level was exceeded. Approximately 0.3 m (1 ft) of additional material

TABLE 2 - SAMPLE ANALYTICAL RESULTS, FIRST PHASE OF **VERIFICATION SAMPLES** 

| SAMPLE                               | DIRECT PUSH | TPH RESU            | CRDL <sup>3</sup> |         |
|--------------------------------------|-------------|---------------------|-------------------|---------|
| NUMBER                               | LOCATION    | DIESEL <sup>1</sup> | OIL²              | (mg/kg) |
| PSA-V01                              | DP-1        | 21                  | 53                | 15      |
| PSA-V02                              | DP-4        | ND⁴                 | ND                | . 15    |
| PSA-V03                              | DP-7        | 62                  | 120               | 15      |
| PSA-V04<br>(duplicate of<br>PSA-V03) | DP-7        | 38                  | 130               | 15      |
| PSA-V05                              | DP-2        | . 44                | 170               | 15      |
| PSA-V06                              | DP-5        | 51                  | 130               | 15      |
| PSA-V07                              | DP-8        | 33                  | 92                | 15      |
| PSA-V08                              | DP-18       | ND                  | ND                | 15      |
| PSA-V09 <sup>5</sup>                 | DP-6        | 48                  | 110               | 15      |

#### Notes:

<sup>&</sup>lt;sup>1</sup> Diesel and fuel oil are C<sub>10-24</sub> range hydrocarbons <sup>2</sup> Waste and lubricating are >C<sub>24</sub> range hydrocarbons <sup>3</sup> Contract-Required Detection Limit

<sup>&</sup>lt;sup>4</sup>ND= Not detected above the laboratory/method limits

<sup>&</sup>lt;sup>5</sup> Sample PSA-V09 collected approximately 3 meters (10 feet) southeast of DP-6

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was removed from the northern portion of the excavation area encompassed by sample points PSA-V03, PSA-V04 (field duplicate of PSA-V03), PSA-V05, PSA-V06, and PSA-V09.

Following removal of the additional material, the sample locations which exceeded the 100 mg/kg TPH action level were resampled. The sample locations can be found in Figure 3. Five additional verification samples (PSA-V10, PSA-V11 [field duplicate of PSA-V10], PSA-V12, PSA-V13, and PSA-V14) were collected in the same manner as described in Section 4.1. The samples were hand-carried to NEL Laboratories in Reno, Nevada, for analysis on August 25, 1997. The analytical results were received on August 27, 1997.

The analytical results are summarized in Table 3 and are provided in Appendix B. TPH concentrations for the five samples were below 15 mg/kg.

The results of the analyses confirmed that the excavation of the additional material was successful in removing materials in the mud pit that exceeded the 100 mg/kg TPH action level, and that no further excavation was necessary.

### 4.2 HOUSEKEEPING SITE

Verification results of the remediation activities consisted of taking photographs of the site before and after removal of the oil cans and preparation of the Housekeeping Closure Verification Form. Copies of the photographs are provided in the Housekeeping Closure Verification Form located in Appendix B.

TABLE 3 - SAMPLE ANALYTICAL RESULTS, SECOND PHASE OF **VERIFICATION SAMPLES** 

| SAMPLE                               | DIRECT PUSH | TPH RES | TPH RESULTS (mg/kg) |         |  |
|--------------------------------------|-------------|---------|---------------------|---------|--|
| NUMBER                               | LOCATION    | DIESEL¹ | OIL <sup>2</sup>    | (mg/kg) |  |
| PSA-V10                              | DP-2        | ND⁴     | ND                  | 15      |  |
| PSA-V11<br>(duplicate of<br>PSA-V10) | DP-2        | ND      | ND                  | 15      |  |
| PSA-V12                              | DP-5        | ND      | ND                  | 15      |  |
| PSA-V13                              | DP-7        | ND      | ND                  | 15      |  |
| PSA-V14 <sup>5</sup>                 | DP-6        | ND      | ND                  | 15      |  |

#### Notes:

<sup>&</sup>lt;sup>1</sup> Diesel and fuel oil are C<sub>10-24</sub> range hydrocarbons <sup>2</sup> Waste and lubricating are >C<sub>24</sub> range hydrocarbons <sup>3</sup> Contract-Required Detection Limit

<sup>&</sup>lt;sup>4</sup>ND= Not Detected above the laboratory/method limits

<sup>&</sup>lt;sup>5</sup> Sample PSA-V14 collected approximately 3 meters (10 feet) southeast of DP-6

## 5.0 CONCLUSIONS AND RECOMMENDATIONS

### **5.1 CONCLUSIONS**

The closure of the PSA mud pit (CAS 57-09-01) was completed in accordance with the approved Streamlined Approach For Environmental Restoration Plan For Corrective Action Unit 416, Mud Pit, Project Shoal Area (DOE, 1997a) by excavation and disposal of the hydrocarbon impacted materials exceeding the 100 mg/kg TPH action level. The mud pit excavation area was backfilled, and the area was regraded using the clean soils from the retention berm.

The process knowledge was provided to substantiate the petition for closure in-place of the PSA muckpile (CAS 57-06-01) as proposed in the Record of Technical Change No. 1 For Streamlined Approach For Environmental Restoration Plan For Corrective Action Unit 416, Mud Pit, Project Shoal Area (DOE, 1997b). The process knowledge regarding the composition of the muckpile indicates that no COC's exceed regulatory action levels.

The housekeeping site was remediated in accordance with the approved the Houskeeping Site Work Plan (DOE, 1996) by removal and disposal of the debris and preparation of the Housekeeping Closure Verification Form.

## **5.2 RECOMMENDATIONS**

The DOE/NV provides the following recommendations since the closure activities were completed as proposed:

- A Notice of Completion be provided by the NDEP to DOE/NV for the closure of the three CASs in CAU 416 (PSA mud pit [CAS 57-09-01], muckpile [CAS 57-06-01], and housekeeping site [CAS 57-98-01]).
- CAU 416 be moved from Appendix III to Appendix IV of the FFACO.

## 6.0 REFERENCES

U.S. Atomic Energy Commission, see AEC

AEC, Nevada Operations Office, 1970. <u>Site Disposal Report, Fallon Nuclear Test Site (Shoal)</u>, <u>Churchill County, Nevada</u>, NVO-73.

U.S. Department of Energy, see DOE

DOE, 1996. <u>Housekeeping Category Corrective Action Unit Work Plan</u>, Rev. 0, August 1996, DOE/NV-452, UC-700.

DOE, 1997a. Streamlined Approach For Environmental Restoration Plan For Corrective Action Unit 416. Mud Pit. Project Shoal Area, Rev. 1, July 1997, DOE/NV-479, UC-700.

DOE, 1997b. Record of Technical Change No. 1 For Streamlined Approach For Environmental Restoration Plan For Corrective Action Unit 416, Mud Pit, Project Shoal Area, Rev. 1, July 1997, DOE/NV-479, UC-700, August 8, 1997.

DOE, 1997c. <u>DOE Proposed Modifications to FFACO Appendices</u>, Fourth Quarter FY 1997, Attachment IV of the Agenda Packet distributed at the FFACO meeting on August 13, 1997.

Desert Research Institute, see DRI

DRI, 1988. <u>CERCLA Preliminary Assessment of DOE's Nevada Operations Office Nuclear Weapons Testing Areas</u>. Las Vegas, NV.

Nevada Administrative Code, see NAC

NAC, 1996. State of Nevada Administrative Code 459.9921 through 459.999 <u>Storage Tanks</u> and 445A.347 <u>Notification of Release of Pollutant</u>.

Nevada Division of Environmental Protection, see NDEP

NDEP, 1996. The State of Nevada Department of Conservation and Natural Resources, Division of Environmental Protection and the U. S. Department of Energy and the U. S. Department of Defense Federal Facility Compliance Order And Agreement.

NDEP, 1997a. Letter from Paul J. Liebendorfer to Stephen A. Mellington, <u>RE: SAFER For CAS 57-09-01</u>, Shoal Surface Mud Pit. August 5, 1997.

NDEP, 1997b. Letter from Paul J. Liebendorfer to Stephen A. Mellington, <u>RE: CAU/CAS Movements Proposed at the FFACO Quarterly Meeting of 08/13/97</u>, September 19, 1997.

## **APPENDIX A**

## LABORATORY ANALYTICAL RESULTS GRANITE SAMPLES NEAR MUCKPILE



Quanterra Incorporated 13715 Rider Trail North Earth City, Missouri 63045

314 298-8566 Telephone 314 298-8757 Fax

## **CERTIFICATE OF ANALYSIS**

IT Las Vegas 4330 South Valley View Suite 114 Las Vegas, NV 89103-4047 October 13, 1996

Attention: Mr. Kurt Schmidt

IT Las Vegas Project Number

Quanterra, St. Louis Project Number

SDG Number

Date Received Number of Samples Sample type : Project Shoal

: 317.55 : 12173

September 17, 1996

: Twenty-six (26)

: Water and Soil

## INTRODUCTION

The following samples from the Nevada Test Site were received at Quanterra, St. Louis for TCLP Volatiles, TCLP Semi-Volatiles, TCLP Metals, Total Barium, Chromium, Gamma, Rad-Screen, Tritium, Total Petroleum Hydrocarbon (Diesel and Gasoline), and Gross Alpha/Beta.

Reviewed and Approved

Allen M. Field

Quanterra Project Manager

mitted



PAGE 2 of 4 October 13, 1996

IT Las Vegas Project Number Project Shoal

Quanterra, St. Louis Project Number : 317.55

## The samples were labeled as follows:

| CLIENT ID  | <u>LAB ID</u>        | Matrix |
|------------|----------------------|--------|
| PSS00001   | 12173-001            | Soil   |
| PSS00002   | 12173-002            | Soil   |
| PSS00008   | 12173-003            | Soil   |
| PSS00009   | 12173-004            | Soil   |
| P\$\$00014 | 12173-005            | Soil   |
| PSS00024   | 12173-006            | Soil   |
| PSS00016   | 12173-007            | Soil   |
| PSS00011   | 12173-008            | Soil   |
| PSS00007   | 12173-009            | Soil   |
| PSS00013   | 12173-010            | Soil   |
| PSS00028   | 12173-011            | Soil   |
| PSS00029   | 12173-012            | Soil   |
| PSS00022   | 12173-013,DUP,MS     | Soil   |
| PSS00023   | 12173-014            | Soil   |
| PSS00026   | 12173-015            | Soil   |
| PSS00027   | 12173-016            | Soil   |
| PSS00019   | 12173-017            | Soil   |
| PSS00020   | 12173-018            | Soil   |
| PS\$00021  | 12173-019            | Soil   |
| PSS00010   | 12173-020,DUP,MS,MSD | Soil   |
| PSS00005   | 12173-021            | Soil   |
| PSS00006   | 12173-022            | Soil   |
| PST00003   | 12173-023            | Water  |
| PSS00030   | 12173-024            | Water  |
| PSS00031   | 12173-025            | Water  |
| PST00004   | 12173-026            | Water  |

### ANALYTICAL RESULTS/METHODOLOGY

The analytical results are presented in the enclosed Certificate of Analysis and EDD Disk. This report includes information on client identification numbers, lab identification numbers, preparation date, analysis date, results, units, and results for quality control samples.

The following table is a list of the analyses requested and the methods used for the above samples:



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IT Las Vegas Project Number

: Project Shoal

Quanterra, St. Louis Project Number

317.55

| <u>Analysis</u> | : | <u> </u> | viethod |
|-----------------|---|----------|---------|
|                 |   |          |         |

**EPA 6010** Barium, Chromium

**TCLP Metals** EPA 1311/7470/6010

EPA 901.1 Gamma Scan EERF H.01 Tritium **EPA 8015** TPH (Diesel and Oil) **EPA 900.0** Gross Alpha/Beta **TCLP Volatiles** EPA 1311/8240 EPA 1311/8270 TCLP Semivolatiles

## **OUALITY CONTROL**

Method blanks and laboratory control samples were analyzed with the samples listed above for each parameter. Duplicates, matrix spike and matrix spike duplicate were performed as indicated above and as requested by the client.

## **NONCONFORMANCE**

#### <u>Metals</u>

The was a nonconformance associated with SDG 12173. The digestion batch for waters of which sample PSS00030 (12173-024) was associated was digested containing 21 analytical samples, one more than the twenty sample limit. Do to a QC requirement of another sample within the batch two laboratory control samples were also analyzed, within the batch.

#### **COMMENTS**

Login 12173 was received at a temperature of 2/2/2°C.

### **Analytical Notes**

#### **Metals**

The relative percent difference for chromium in sample PSS00022 (12173-013) was 25.1% and above the 20% limit. The associated data was flagged with an asterisk.



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IT Las Vegas Project Number

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### **OUALIFIERS/DEFINITIONS**

\* : Values outside of QC limits.

B : Results were between the PQL and the IDL.

U : Results are less than the IDL.

J : An estimated value.

ND : Parameter was analyzed for but not detected.

UG/L
Micrograms per Liter.
MG/L
Milligrams per Liter.
Picocurries per liter.
NA
Not applicable.

%REC : Percent Recovery.

Felcent Recov

DUP : Duplicate.

QCBLK : Laboratory Method Blank.
QCLCS : Laboratory Control Sample.

Qual. : Qualifier.

LCL : Lower Control Limits.
UCL : Upper Control Limits.

PQL : Practical Quantitation Limit.

MDA : Minimum Detectable Activity.

Project: 317.55

Category: ICAP Metals Method: EPA 6010 Matrix: Soil Sample Date : 09/16/96 Receipt Date : 09/17/96 Report Date : 10/19/96

Client ID: PSS00022

| Analyte            | CAS Number | Blank Sample<br>Name           | Prep.<br>Date        | Analyses<br>Date     | Result Unit Qual.      | Detection<br>Limit | Dilution |
|--------------------|------------|--------------------------------|----------------------|----------------------|------------------------|--------------------|----------|
| Barium<br>Chromium |            | QCBLK115574-1<br>QCBLK115574-1 | 10/04/96<br>10/04/96 | 10/04/96<br>10/04/96 | 104 mg/kg<br>7.4 mg/kg | 20.0<br>1.0        | 1 1      |

Project: 317.55

Category: ICAP Metals Method: EPA 6010 Matrix: Soil

Sample Date : 09/16/96 Receipt Date : 09/17/96 Report Date : 10/19/96

Quanterra ID : 12173-0130

Client ID: PSS00022DUP

| Analyte            | CAS Number             | Blank Sample<br>Name           | Pr <b>e</b> p.<br>Date | Analyses<br>Date     | Result Unit Qual.       | Detection<br>Limit | Dilution |  |
|--------------------|------------------------|--------------------------------|------------------------|----------------------|-------------------------|--------------------|----------|--|
| Barium<br>Chromium | 7440-39-3<br>7440-47-3 | QCBLK115574-1<br>QCBLK115574-1 | 10/04/96<br>10/04/96   | 10/04/96<br>10/04/96 | 93.3 mg/kg<br>5.8 mg/kg | 20.0<br>1.0        | 1        |  |

Project: 317.55

Category: ICAP Metals Method: EPA 6010 Matrix: Soil

Client ID: PSS00022MS

Sample Date : 09/16/96 Receipt Date : 09/17/96 Report Date : 10/19/96

Quanterra ID : 12173-013MS

| Analyte            | CAS Number | Blank Sample<br>Namė | Prep.<br>Date        | Analyses<br>Date     | Result Unit Qua    | Detection<br>Limit | Dilution |
|--------------------|------------|----------------------|----------------------|----------------------|--------------------|--------------------|----------|
| Barium<br>Chromium |            | PCBLK115574-1        | 10/04/96<br>10/04/96 | 10/04/96<br>10/04/96 | 91 %REC<br>90 %REC | ;                  | 1        |

Project: 317.55

Category: ICAP Metals Method: EPA 6010 Matrix: Soil

Client ID: PSS00023

Sample Date : 09/16/96 Receipt Date : 09/17/96 Report Date : 10/19/96

| Analyte  | CAS Number | Blank Sample<br>Name | Prep.<br>Date | Analyses<br>Date | Result Unit Qual. | Detection<br>Limit Dile | ution |
|----------|------------|----------------------|---------------|------------------|-------------------|-------------------------|-------|
| Barium   | 7440-39-3  | QCBLK115574-1        | 10/04/96      | 10/04/96         | 84.2 mg/kg        | 20.0                    | 1     |
| Chromium | 7440-47-3  | QCBLK115574-1        | 10/04/96      | 10/04/96         | 6.4 mg/kg         | 1.0                     |       |

Project: 317.55

Category: ICAP Metals Method: EPA 6010 Matrix: Soil

. 0,000.

Client ID: PSS00026

Sample Date : 09/16/96 Receipt Date : 09/17/96 Report Date : 10/19/96

| Analyte  | CAS Number | Blank Sample<br>Name | Prep.<br>Date | Analyses<br>Date | Result Unit Qual. | Detection<br>Limit Dilution |
|----------|------------|----------------------|---------------|------------------|-------------------|-----------------------------|
| Barium   | 7440-39-3  | QCBLK115574-1        | 10/04/96      | 10/04/96         | 141 mg/kg         | 20.0 1                      |
| Chromium | 7440-47-3  | QCBLK115574-1        | 10/04/96      | 10/04/96         | 10.2 mg/kg        |                             |

Project: 317.55

Category: ICAP Metals Method: EPA 6010 Matrix: Soil

Sample Date : 09/16/96 Receipt Date : 09/17/96 Report Date : 10/19/96

Client ID: PSS00027

| Analyte  | CAS Number | Blank Sample<br>Name | Prep.<br>Date | Analyses<br>Date | Result Unit Qual. | Detection<br>Limit | n<br>Dilution |
|----------|------------|----------------------|---------------|------------------|-------------------|--------------------|---------------|
| Barium   | 7440-39-3  | QCBLK115574-1        | 10/04/96      | 10/04/96         | 103 mg/kg         | 20.0               | 1 1           |
| Chromium | 7440-47-3  | QCBLK115574-1        | 10/04/96      | 10/04/96         | 10.2 mg/kg        | 1.0                |               |

Project: 317.55

Units pci/9 pci/g pci/g pCi/9 pci/g pci/g pCi/g pc i/g pci/g pci/g pci/g pci/g pc1/g pci/g pci/g pc1/g pci/g pci/g pCi/g pci/g pc i/g Category: GAMMA SCAN Method: EPA 901.1 0.46 8. 0.19 0.22 0.28 0.38 0.25 0.36 0.25 2.28 0.61 0.24 0.24 2.63 9.81 3.5 2.1 2.7 2.5 Ş Sigma Error (+/-) 0.50 2.53 0.55 0.20 0.21 0.25 0.34 0.83 0.16 0.59 5.09 0.43 0.21 0.41 8.4 4.4 4.5 4.8 : Result 9.46 8. <del>7.</del> 8.0 23.8 3.73 1.53 1.1 0.44 0.83 17.1 0.24 18.7 1.17 0.37 0.91 0.24 23.2 2.84 1.23 Potassium-40 Thatlium-208 Potassium-40 Potassium-40 Thallium-208 Potassium-40 Thallium-208 Thallium-208 Cesium-137 Cesium-137 Cesium-137 Radium-226 Radium-228 Cesium-137 Radium-226 Radium-228 Parameter Lead-212 Lead-212 Lead-214 Lead-214 Lead-214 Lead-214 Date Analyzed 96/92/60 96/97/60 09/26/96 09/56/96 09/26/96 09/23/96 09/23/96 96/52/60 09/23/96 09/23/96 Prep Date 09/11/96 Date Received 09/11/96 09/11/96 09/11/96 09/11/96 09/16/96 09/15/96 09/15/96 09/15/96 09/115/96 Date Sampled Matrix Soil Soil Soil Soil Soil Laboratory 10 12173-010 12173-012 12173-013 12173-009 12173-011 PSS00013 PSS00028 PSS00007 PSS00029 PSS00022 Client

pci/g

0.19

0.19

1.0

Lead-212

Project: 317.55

Cl ient 10 PSS000ZZDUP

PSS00022

| 7.55 |                  |        |                 | İ                |              |                  |              |        | Category:<br>Method:    | GAMMA SCAN<br>EPA 901.1 |       |
|------|------------------|--------|-----------------|------------------|--------------|------------------|--------------|--------|-------------------------|-------------------------|-------|
|      | Laboratory<br>10 | Matrix | Date<br>Sampled | Date<br>Received | Prep<br>Date | Date<br>Analyzed | Parameter    | Result | Sigma<br>Error<br>(+/-) | AGH                     | Units |
|      | 12173-013        | Soil   | 96/19/60        | 09/11/60         | 09/23/96     | 09/26/96         | Thattium-208 | 0.36   | 0.17                    | 0.24                    | pc1/9 |
|      |                  |        |                 |                  |              |                  | Bismuth 214  | 1.03   | 0.34                    | 0.35                    | pci/g |
|      |                  |        |                 |                  |              |                  | Lead-214     | 0.95   | 92.0                    | 0.27                    | pci/9 |
|      | 12173-0130UP     | Soil   | 09/16/96        | 09/11/60         | 09/23/96     | 96/52/60         | Cesium-137   | 0.19   | :                       | 0.19                    | pc1/g |
|      |                  |        |                 |                  |              |                  | Potassium-40 | 26.9   | 8.4                     | 2.1                     | pc1/9 |
|      |                  |        |                 |                  |              |                  | Radium-228   | 1.69   | 0.57                    | 99.0                    | bci/g |
|      |                  |        |                 |                  |              |                  | Lead-212     | 1.05   | 0.25                    | 0.23                    | pci/8 |
|      |                  |        |                 |                  |              |                  | Thallium-208 | 0.61   | 0.21                    | 0.18                    | pci/g |
|      |                  |        |                 |                  |              |                  | Lead-214     | 1.05   | 0.30                    | 0.32                    | pci/g |
|      | 12173-014        | Soil   | 09/16/96        | 09/11/60         | 09/23/96     | 10/07/96         | Cesium-137   | 0.23   | ;                       | 0.23                    | pCi/g |
|      |                  |        |                 |                  |              |                  | Potassium-40 | 25.4   | 8.4                     | 8.1                     | pCi/9 |
|      |                  |        |                 |                  |              |                  | Lead-212     | 0.85   | 0.38                    | 0.32                    | pCi/g |
|      |                  |        |                 |                  |              |                  | Thallium-208 | 0.42   | 0.17                    | 0.16                    | pci/g |
|      |                  |        |                 |                  |              |                  | Bismuth 214  | 1.36   | 0.36                    | 0.32                    | pc1/9 |
|      |                  |        |                 |                  |              |                  | Lead-214     | 0.93   | 0.28                    | 0.32                    | pci/g |
|      | 12173-015        | Soil   | 09/16/96        | 09/11/60         | 09/23/96     | 10/07/96         | Cesium-137   | 0.23   | •                       | 0.23                    | pci/g |
| ,    |                  |        |                 |                  |              |                  | Potassium-40 | 21.2   | 4.1                     | 2.1                     | pci/g |
|      |                  |        | -               |                  |              |                  | Radium-226   | 3.43   | 2.73                    | 2.72                    | pci/g |
|      |                  |        |                 |                  |              |                  | Thorium-234  | 1.87   | 1.06                    | 1.40                    | pci/g |
|      |                  |        |                 |                  |              |                  | Lead-212     | 1.04   | 0.22                    | 0.21                    | pci/g |
|      |                  |        |                 |                  |              |                  | Thallium-208 | 0.31   | 0.17                    | 0.22                    | pci/g |
|      |                  |        | •               |                  |              |                  | Bismuth 214  | 0.82   | 0.34                    | 0.33                    | pci/g |
|      |                  |        |                 |                  |              |                  |              | 1      | į                       |                         |       |

PSS00023

PSS00026

pci/g

0.31

0.26

0.83

Lead-214

Las Vegas, NV 89103 Project: 317.55

Units pci/g pci/g pci/g pc1/9 pci/g pci/9 pci/g GAMMA SCAN EPA 901.1 0.30 0.40 0.20 0.80 0.19 0.20 0.40 0.28 0.16 0.36 0.22 0.33 0.25 3.37 0.31 0.24 0.27 0.38 3.9 7.7 2.1 8. ş Category: Method: Sigma Error (+/-) 4.13 0.36 9.68 0.30 0.21 0.41 0.22 0.21 0.45 0.32 0.39 0.23 0.36 0.32 4.0 4.6 5.0 5.5 1 : : **Result** 5.78 1.12 0.36 1.76 1.34 1.26 1.12 0.25 24.8 1.03 0.20 27.7 0.57 0.24 20.7 2.04 0.39 0.74 =: 0.22 1.33 Thallium-208 Potassium-40 Potassium-40 Thallium-208 Potassium-40 rhattium-208 Potassium-40 That Lium-208 Bismuth 214 Bismuth 214 Cesium-137 Radium-226 Cesium-137 Cesium-137 Radium-228 Cesium-137 Cesium-137 Parameter Lead-212 tead-214 Lead-212 Lead-212 Lead-214 Lead-214 Date Analyzed 10/07/96 10/07/96 10/07/96 10/07/96 10/07/96 09/23/96 09/23/96 09/17/96 09/23/96 09/23/96 09/23/96 Prep Date 09/15/96 09/17/96 Date Received 09/11/96 09/11/96 09/11/96 09/16/96 09/11/60 09/16/96 09/16/96 Date Sampled Matrix Soit Soil Soil Soil Soil Laboratory 1D 12173-018 12173-020 12173-019 12173-016 12173-017 PSS00010 PSS00019 PSS00020 PSS00027 PSS00021 Client 9

| Project: 317.55 |                  |        |                 | <b>-</b> .       |              |                  |             |        | Category:<br>Method:    | Gross Alpha/Beta<br>EPA 900.0 | a/Beta |
|-----------------|------------------|--------|-----------------|------------------|--------------|------------------|-------------|--------|-------------------------|-------------------------------|--------|
| Client<br>ID    | Laboratory<br>10 | Matrix | Date<br>Sampled | Date<br>Received | Prep<br>Date | Date<br>Analyzed | Parameter   | Result | Sigma<br>Error<br>(+/-) | MDA                           | Units  |
| PSS00022        | 12173-013        | Soil   | 09/16/96        | 09/17/96         | 96/92/60     | 10/02/96         | Gross Alpha | 23.9   | 3.5                     | 1.8                           | pCi/g  |
|                 |                  |        |                 |                  |              |                  | Gross Beta  | 27.1   | 3.0                     | 1.8                           | pCi/g  |
| PSS000220UP     | 12173-013DUP     | Soil   | 09/16/96        | 09/11/60         | 96/92/60     | 10/02/96         | Gross Alpha | 25.3   | 3,6                     | 1.7                           | pC1/g  |
|                 |                  |        |                 |                  |              |                  | Gross Beta  | 25.1   | 2.8                     | 1.7                           | pCi/g  |
| PSS00023        | 12173-014        | Soil   | 09/16/96        | 09/11/60         | 96/92/60     | 10/02/96         | Gross Alpha | 25.4   | 3.7                     | 2.0                           | pCi/g  |
|                 |                  |        |                 |                  |              |                  | Gross Beta  | 27.3   | 3.0                     | 1.7                           | pCi/g  |
| PSS00026        | 12173-015        | Soil   | 09/16/96        | 09/17/96         | 96/92/60     | 10/02/96         | Gross Alpha | 35.9   | 4.7                     | 8.                            | pCi/g  |
|                 |                  |        |                 |                  |              |                  | Gross Beta  | 30.0   | 3.3                     | 9.1                           | pCi/g  |
| PSS00027        | 12173-016        | Soil   | 09/16/96        | 96/11/60         | 09/56/96     | 10/02/96         | Gross Alpha | 27.3   | 3.9                     | 2.3                           | pC1/9  |
|                 |                  | ٠.     |                 |                  |              |                  | Gross Beta  | 25.8   | 5.9                     | 1.8                           | pCi/g  |
| PSS00019        | 12173-017        | Soil   | 09/16/96        | 09/17/96         | 96/92/60     | 10/02/96         | Gross Alpha | 19.6   | 3.1                     | 1.9                           | pC1/g  |
|                 |                  |        |                 |                  |              | ٠                | Gross Beta  | 24.2   | 2.8                     | 8.                            | pci/g  |
| PSS00020        | 12173-018        | Soil   | 09/16/96        | 96/11/60         | 09/56/96     | 10/02/96         | Gross Alpha | 9.04   | 5.1                     | 1.8                           | pC1/9  |
|                 |                  |        |                 |                  |              |                  | Gross Beta  | 6.75   | 0.9                     | 1.7                           | pC1/g  |
| PSS00021        | 12173-019        | Soit   | 09/16/96        | 09/17/96         | 09/56/96     | 10/02/96         | Gross Alpha | 53.9   | 6.5                     | 1.9                           | pCi/g  |
|                 |                  |        |                 |                  |              |                  | Gross Beta  | 37.7   | 4.0                     | 8.1                           | pC1/g  |
| PSS00010        | 12173-020        | Soil   | 09/12/96        | 09/17/96         | 09/23/96     | 96/97/60         | Gross Alpha | 27.72  | 3.9                     | 1.9                           | pCi/g  |
|                 |                  |        |                 |                  |              |                  | Gross Beta  | 18.5   | 2.2                     | 1.7                           | pC1/g  |
| PSS00010DUP     | 12173-020bup     | Soil   | 09/12/60        | 09/17/96         | 09/23/96     | 09/56/96         | Gross Alpha | 24.0   | 3.8                     | 5.6                           | pCi/g  |
|                 |                  |        |                 |                  |              |                  | Gross Beta  | 15.6   | 5.0                     | 1.9                           | pCi/g  |
| PSS00005        | 12173-021        | Soil   | 09/12/96        | 09/17/96         | 96/92/60     | 10/02/96         | Gross Alpha | 10.6   | 5.9                     | 3.5                           | pCi/g  |
| . •             |                  |        |                 |                  |              |                  | Gross Beta  | 22.3   | 5.6                     | 1.6                           | pCi/g  |
| PSS00006        | 12173-022        | Soil   | 09/12/96        | 09/11/96         | 96/92/60     | 10/02/96         | Gross Alpha | 21.0   | 3.4                     | 5.4                           | pci/g  |

## TECHNOLOGY CORPORATION

### **CHAIN OF CUSTODY RECORD\* ANALYSIS REQUEST AND**

P Gretz 59627 Sample Team Members Anwalra Schoo Project Name/No. 3hos//164044 10/10/ Profit Center No. 3 Required Report Date 11 Purchase Order No. 6 Project Manager<sup>4</sup>

White: To accompany sample Reference Document No. 519801

| Shipment Date 7 9/16/16  ab Destination 8 Quenterra  Lab Contact 9 Allen Field  contact/Phone \$2/hmidt/H-17H2 Reper/Waybill No. \$2/hmidt/H-17H2 Reper/Waybill No. \$2/hmidt/H-17H2 Reper/Waybill No. \$2/H2 871/805687H | Bill to:5 II Corporation | 4330 5 Valley ViaJ#114     | 20 VEG45 INV              | 10 Sul Hersh                                       | 777                                   | 7:12                   |
|---|--------------------------|----------------------------|---------------------------|--|---------------------------------------|------------------------|
| SOS<br>Ph   | -                        | ab Destination 8 Quenterra | Lab Contact 9 Allen Field | Project Contact/Phone (24hmidt / H-17H2) Report to | Carrier Waybill No. 122 Ex 87/3056874 | ONE CONTAINER PER LINE |

| 8 - 1 - 2 -   | Yellov          | v: Fiel         | d copy         |               | د پهرېښون           | * *8           | ee ba                           | ck of         | form                             | for spe   | ciel ins   | structio                                      | ns                                       |
|---|-----------------|-----------------|----------------|---------------|---------------------|----------------|---------------------------------|---------------|----------------------------------|---|--|---|--|
| Condition on 21 the Disposal 22 Receipt Receipt     |                 | FORTAB          | JOSE ONLY      |               |                     |                |                                 | <b>乔</b> 德-   |                                  | Disposal by Lab 🔀 Archive 2 (mos.)                          | CLP Data Packages                                    | Date:<br>Time:                                | Date: Time: Im                           |
| 8 -   |                 |                 |                |               |                     | ė.             | , ,                             |               |                                  | yd lex  | CI   |   |  |
| Requested Testing 20<br>Program                     | GrowAlb Ba Or * | Grama 11ASL 300 | LOBSAIB BA CT  | mma- 11451300 | Grass A/B Ba Cr 18  | Gamme-HASL 300 | GIBSAIB. BA.CF 14               | Camma HASL300 | acon Sample PSS00022             | Sample Disposal: <sup>25</sup><br>Return to Client 🗍 Dispos | Project Specific (specify).                          | 1. Received by 28<br>(Signature/Affiliation)  | ived by<br>Affiliation]                  |
| Pre-19<br>servative                                 | Lee.            | _1              |                |               |                     |                |                                 | <u>~</u>      | Samo                             | <b>3</b>  |  | 1. Received b<br>(Signature/Affiliation)      | 2. Received by (Signeture/Affiliation)   |
| r <sup>17</sup> Sample <sup>18</sup><br>Volume      | . 208xg         | 2×1632          | 900            | 2001          | 208                 | 16.02          | 208                             | Koz           | Reon                             | Unknown 🔯   | 3C Level: <sup>27</sup><br>.[ <b>]</b> II.[ <b>]</b> | 30-16   |  |
| Container <sup>17</sup><br>Type                     | B               |                 |                | <b>→</b>      | hober               | <b>→</b>       | Amber                           | <b>→</b>      | abomtory                         |   | S⊡.  | 9   |  |
| Date/Time <sup>16</sup> Container<br>Collected Type | 9-16-94/084F    |                 | 716-961m Amber |               | 9-16-96 2930 6 ober | <b>→</b>       | 1-14-14/0950 Amber              | <b>-</b> >    | John Labor                       | 24<br>Skin Imitant 📑 Pois                                   |  | Opposite Date:                                | / Date:<br>Time:                         |
| Sample <sup>15</sup><br>Description/Type            | 1.05            | <b>→</b>        | 1,06           | ( →           | 50.1                | J<br>→         | ( <sup>1</sup> 0 <sup>2</sup> ) | <b>-</b>      | ns: 23 Perform                   | Identification: 24<br>Flammable 🗐 Skin In                   | Required: 26   | 17 PM 87                                      |  |
| Sample <sup>14</sup><br>Number                      | 65500022        | 6,500022        | P5500023       | P5500023      | P5500026            | P\$00026       | P5500027                        | P5500027      | Special Instructions: 23 proform | Possible Hazard Identification: 24 Non-hazard               | Turnaround Time Required: 26                         | 1. Relinquished by 28 (Signature/Affiliation) | 2. Relinquished by (Signature/Affiledön) |
| *   | 7               |                 | 1              |               | \                   | `              | _                               | >             |                                  |   |  |   |  |

i.sr

Gross AID SM OF BACK- FPALLOW Tritum EERFHOI

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3. Received by (Signature/Affiliation)

Date: Time:

3. Refinquished by (Signature)

Comments: 29



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SHOOL MUDPH CHARACTERIZATION P5500022 BACKGROUND LOCATION SAMPLE LOCATION. SOIL - SHALLON **CONTAINERS** SAMPLE TYPE \_ **AMOUNT USED** COLLECTED COMPOSITE YES 8- OZ AMBIR GLAS COMPOSITE TYPE SPATIAL OF DP-15 0-ZET DEPTH OF SAMPLE 16-02 AMBER GLAS: WEATHER PARTLY SUNNY, TEMP YOFF BRLEZY

COMMENTS: SEE FADE. DATED ON/16/96 FOR FLETHER DETRIES.

SEE ATTACKED MAR FOR ACCEPTENT OF DR-15 DOLL BORNINGS.

PS 3 DOD 2 Z MILL BE AND YESD FOR GROSS ON B 3/H GAMMA SOCKED BY ACCEPTENT DESCRIPTION OF THE STANDS OF THE STAND

PREPARED BY: A Mane Welcher 09/16/90



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| PROJECT NAME SHOPE                    | - CHARACTERIZATION      |                                       |
|---------------------------------------|-------------------------|---------------------------------------|
| SAMPLE NO                             |                         | ···                                   |
| SAMPLE LOCATION                       | ( PUPLICATE CE PSSOOD 2 | 2) (BACKGROUND)                       |
| SAMPLE TYPE SOIL - SHALLOW NO         | CONTAINERS<br>USED      | AMOUNT<br>COLLECTED                   |
| COMPOSITE TYPE SPATIAL OF DP-15       | 8-02 AMPERGLES          | 8-02                                  |
| DEPTH OF SAMPLEO-ZAT                  | 16-OLAMBIA GLASS        | 16-02                                 |
| WEATHER PARTLY SUNNY TEMP YOUR BREEZY |                         | · · · · · · · · · · · · · · · · · · · |

COMMENTS: SEE FOU DATED 9/16/96 FOR EUSTHER DETAILS.

SEE ATTRUMP MAR FOR LECATION OF DR-15 SON BORISS.

P5500023 114 BS AMALYZED FOR GROSS OF BY LINE PRINTING.

P5500023 114 BS AMALYZED FOR GROSS OF BY LINE PRINTING.

P5500023 114 BS AMALYZED FOR GROSS OF BY LINE

P5500023 A SHALLOW SOIL SAMPLS AND COLUMNS.

P07-15 NTM SUFFICIENT NOLLOW TO P11 SAMPLS SAXS.

FOR P5500022 AND P5500023 A SHALLOW SOIL SAMPLS MAD COLUMNS.

FOR P5500022 AND P5500023 A SHALLOW SOIL SAMPLS SAXS.

FOR P5500022 AND P5500023 A SHALLOW SOIL SAMPLS SAXS.

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FOR P5500022 AND P5500023 A FTS AND SHALLOW SAXS.

FOR F6600020 A THE P5500020 A TOTAL OF SOILS FORM.

P6500023 A FTS A FTS AND SHALLOW SAXS.

FOR SAMPLE TARS. A FRO THE SCANIE AND SHIPP THE FOUNDS.

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| PROJECT NAME SHOAL MURPIT                   | CHARACTERIZATION   |                     |
|---|--------------------|---------------------|
| SAMPLE NO                                   |                    |                     |
| SAMPLE LOCATION DP-16                       | LBACKGROUND LOCATE | (40                 |
| SAMPLE TYPE SOIC - SHALLON  COMPOSITE YESNO | CONTAINERS USED    | AMOUNT<br>COLLECTED |
| COMPOSITE TYPE SPATIAL OF DP-16             | 8-02 Amore GLASS   | 8-02                |
| DEPTH OF SAMPLE 0-3 er                      | 16-02 AMER GLAS    | 16-02               |
| WEATHER PARTLY SUMMY TEMP 40'S              |                    |                     |

| CC  | MN         | IEN'        | TS:  | 5           | EE  |          | F        | 20         |             | 0  | 9.7        | EQ.     | 9    | /16         | /9   | 6        | B     | لم   | 4         | RT    | 42   | R         | ρ          | 2-  | 7010       | 5.       |     |
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PREPARED BY: A Man Welcher 9/16/9 6



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| PROJECT NAME SHOOL MUDRIT CH     | DRACTERIZATION              |
|----------------------------------|-----------------------------|
| SAMPLE NO                        |                             |
| SAMPLE LOCATION                  | (BACKGROUND LOCATION)       |
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| COMPOSITE TYPE SPATIAL OF DY-17- | 8-02 AMBLEGUES 8-02         |
| DEPTH OF SAMPLE 0-3 CT.          | 16-02 AMERICALASS 16-02     |
| WEATHER PARTLY SUNNY, TEMP 40'S  |                             |

| CO       | MA   | /FN                                     | TS:            |  |          | Γ        |          | h_       |             |            |          |             | 09/             | /          | 100      |            |          |          | ٠              |              |      |     |          |          |            |  |                |                |
|----------|------|---|----------------|--|----------|----------|----------|----------|-------------|------------|----------|-------------|-----------------|------------|----------|------------|----------|----------|----------------|--------------|------|-----|----------|----------|------------|--|----------------|----------------|
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| 06       |      | 26                                      | CH             | _  | 56       | EEY      | <u>-</u> | d        | R           | £          | عے       | حنده        | e               | ۵          | <u>r</u> | 10         | _        | 25       | يع             | BE           |      | HE  |          |          |            | 1 17   | 417            | •              |
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| ٤ر       |      | A                                       | يرح            | cx   |          | 5        | 00       | _        | 7           | -          | حرر      | GK.         | 9               | 15         | 15-      | 4          | re       | m        | 14             | Z            | 54   | 04  | 4        | im       | Por        | do   | nZ/            | 7.             |
|          |      |   |                |  |          | _        |          |          |             |            |          |             |                 |            |          |            |          |          |                |              |      |     |          |          |            | $\models$  | _              |                |
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PREPARED BY: A- Main Welan 9/16/16

### APPENDIX B

### HOUSEKEEPING SITE CLOSURE VERIFICATION DOCUMENTATION

### FFACO CORRECTIVE ACTION SITE HOUSEKEEPING CLOSURE VERIFICATION FORM

Closure Verification Date: August 19, 1997

**CAS Number**: 57-98-01

General Location: Project Shoal Area Elevation: 5198 ft

**Latitude**: 39° 11′ 56″ **Northing**: 4,338,653.629 (UTM)

CAU Number: 416

**Longitude**: 118° 22' 35" **Easting**: 546,682.546 (UTM)

Coordinate/Elevation Data Obtained from Garmen 40 Global Position System: Accuracy is within 300 ft Horizontal - Vertical Varies with Locality

### **Site Access Route:**

From US 50 turn south on SR 839 approximately 4.9 miles to corrals (on east side of road). Continue 0.1 mile on SR 839, turn west on dirt road and proceed approximately 3.9 miles. Site is approximately 120 feet to the south of the road.

| Waste Item(s) Originally at Site | Apparent Waste Type* |
|----------------------------------|----------------------|
| Empty quart steel oil cans       | Ordinary (Debris)    |
|                                  |                      |

**CAS Status Prior To Cleanup** 

**CAS Status After Cleanup** 

### **Current Site Description/Observations:**

IT Corp. field staff identified approximately six oil cans at the site on March 12, 1996, BN Environmental Remediation (ER) staff verified that the oil cans (and approx. 14 more in the same general area) were still present

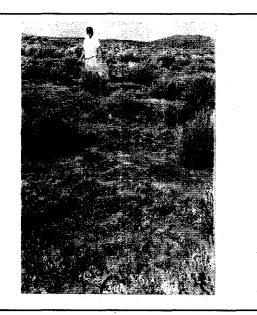
<sup>\*</sup> Ordinary, Scrap Metal, Asbestos, PCB, Salvageable, Hazardous, Radioactive, Mixed, Unknown, Other

### FFACO CORRECTIVE ACTION SITE HOUSEKEEPING CLOSURE VERIFICATION FORM

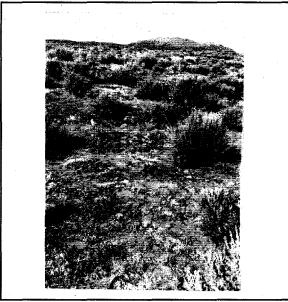
### **Current Site Description/Observations (continued):**

on August 19, 1997. ER staff retrieved the cans on August 19, 1997 (approximately 20) for disposal at the solid waste landfill located at the Nevada Test Site.

### **✓** No Further Action Required at Corrective Action Site



**CAS Status Prior To Cleanup** 



CAS Status After Cleanup

Dave Madsen

**Corrective Action Coordinator/Designee** 

(Signature)

Date

| DATE: 8-19-97 NO. A 5647 Reynolds Electrical & Engineering Co., Inc.                                |
|---|
| Radiological Control Department-Ramatrol  Material Clearance  |
|   |
| MONITOR: Mc Clos key ORGANIZATION: BN RP  |
| SURVEY LOCATION: PROJECT SHOAL  |
| FROM: PROJECT SHOOL - FALLON NV   |
| TO: NTS   |
| MUNRESTRICTED  MOFF-SITE  ON-SITE  SALVAGE  EXCESS  |
| THIS MATERIAL HAS BEEN SURVEYED FOR RADIOACTIVITY AND MEETS DOE STANDARDS FOR RELEASE TO PUBLIC USE |
| ☐ CONTROLLED  |
| DESCRIPTION:  |
| BAG OF OLD RUSTY OIL  |
| CANS PICKED UP FROM   |
| PROSELT SHOPL AREA  |
| VIC FAILON NV.  |
| CAU 416 CAS 57-98-01  |
| <u> </u>  |
|   |
|   |
| <del></del>   |
|   |
| REMARKS: EXP 8-29-97  |
|   |
| <b>☆U.S. GPO:1994</b> –584-857 RE-1581 (06/93)  |

148-9

### **APPENDIX C**

### WASTE DISPOSAL DOCUMENTATION

# AREA 6 HYDROCARBON LANDFILL ACCEPTANCE CHECKLIST

### SOURCE OF MATERIAL

- Generator:
- Contact and phone #:
- c. Location:

- mear Fallon, NV Projects CAL 416 5-721
- d. Charge #:
- e. Organization code:
- Who will transport?:
- LSCBIDEB

# PACKAGE WILL INCLUDE THE FOLLOWING ITEMS

~200cm Brady # PN-0087 Wate Pile YES Is the package complete?

Characterization letter

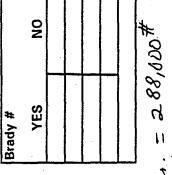
Process knowledge

ن Ġ. Basic description

Analytical results

|         | ON  |  |     |             |
|---------|-----|--|-----|-------------|
| Brady # | YES |  | 1 1 | 1.8 3/20/27 |
|         |     |  | ,   | C           |

|         | NO  |  |  |  |
|---------|-----|--|--|--|
| Brady # | YES |  |  |  |



8/25/97= 6. bouls x ~ 48,000 lbs. 12 louds x ~ 2004= 240 cy

d. Drum #'s:

8/26/97= 6 loads = 326,900#

2-2-92

a. Date scheduled:

Start date:

End date:

SCHEDULE A DATE AND TIME FOR DISPOSAL

# AT THE LANDFILL, THE GENERATOR MUST HAVE

- Bill of Lading
- b. Rad certification
  - Weight ticket

# COMPLETE PACKAGE

- Enter weight into database e ë
  - Enter into billing log þ.

Signature/Date:

| DATE: 8/25/97 NO. A 5791  |   | DATE: 8/26/2 NO. A 5792  |
|---|---|--|
| Reynolds Electrical & Engineering Co., Inc.<br>Radiological Control Department-Ramatrol |   | Reynolds Electrical & Engineering Co., Inc. Radiological Control Department-Ramatrol |
| Material Clearance  |   | Material Clearance   |
| MONITOR: McCloskey  |   | MONITOR: McClostey   |
| ORGANIZATION: BN RP   |   |  |
| SURVEY LOCATION: PROJECT SHOOL  |   | ORGANIZATION: BN RP  |
| FROM: PROTECT SHOAL   | ì | SURVEY LOCATION: SHOAL MUDPIT  |
| TO: NTS   |   | FROM: PROTECT SHOOL SITE   |
|   | 9 | TO: NTS  |
| <b>⊠UNRESTRICTED</b>  |   | <b>⊠</b> UNRESTRICTED  |
| ☑ OFF-SITE  |   | SOFF-SITE  |
| □ ON-SITE   |   | ON-SITE  |
| ☐ SALVAGE<br>☐ EXCESS   |   | SALVAGE  |
| C EXOLOG  |   | ☐ EXCESS   |
| THIS MATERIAL HAS BEEN SURVEYED FOR INITIAL   |   |  |
| RADIOACTIVITY AND MEETS DOE   |   | THIS MATERIAL HAS BEEN SURVEYED FOR INITIAL RADIOACTIVITY AND MEETS DOE              |
| STANDARDS FOR RELEASE TO PUBLIC   |   | STANDARDS FOR RELEASE TO PUBLIC  |
| USE   |   | USE  |
|   |   |  |
| DECCRIPTION.  |   | ☐ CONTROLLED   |
| DESCRIPTION:  |   | DESCRIPTION: HYDROCARBON   |
| HYDROCANSON IMPRITED  |   | (Petroleum) Impactel Soil  |
| Odi Sun puncos  |   | From Project Shoal Mud   |
| SOLO PROMIPOLO COLLA  |   | Pit - CAU416   |
| SHODL - VALLON NV.  |   |  |
| 0.44 ///  |   | BN Tracking # BN 0087  |
| <u>CAU 416</u>  |   | 6 574  |
|   |   | \$ LOADS PLUS  |
| Waste Tracking # BN 0087  |   | "+ LOAD Sump how to  |
|   |   | disposal @ A 23 land Fill  |
| 6 loads of 801  |   | -and re-use for UGTA   |
|   |   | 1  |
|   |   | Lauri little   |
|   |   | Jacum Tay # A5793  |
|   |   | en 8/27/97   |
| F ( 0 ) 1 0 7   |   |  |
| REMARKS: Exp. 9-20-7/   |   | REMARKS: Exp 9-20-97   |
|   |   |  |
|   |   |  |
|   |   |  |
| <b>☆</b> U.S. GPO:1994-584-857 RE-1581 (06/93)  |   | <b>☆</b> U.S. GPO:1994—584-857 RE-1581 (06/93)                                       |

| STATE OF NEVA   | WIL COT!   |                              |
|---|--|------------------------------|
| PUBLIC WEIGHMASTER'S CERTIFICATE OF This is to certify. That the following - described march Weighmaster as prescribed by the Public Weighm   | WEIGHT AND MEASURE FEE   |                              |
| 87340 LB 8120A 8-25-97  | DATE 8/25/97 (15)  |                              |
| TIMECUSTOME   | RS NAME RULE ( VC. 1 + )   |                              |
| 4   | MODITY 11 11 C TCU NO. OF UNITS  |                              |
|   | EQUIPMENT NO. TRUCK LICENSE NO.  |                              |
| SMEDLEY'S   | ) 2 2,   |                              |
| 1755 RENO HIGHWAY PHONE ( 702) 423 5500   | TRAILER LICENSE NO. DRIVER ON.   |                              |
| FALLON, NEVADA 89406  | DRIVER I   |                              |
|   | DRIVER ()  |                              |
| 70.1.1.10   | SMEDLEY'S<br>Public Weighmaster  |                              |
| SHIPPER: 1 ) C  |  |                              |
| RECEIVER 1 V 1 C- + > 1 C- 1 T  | DEPOTY   |                              |
|   | J.H. SMITTEN -OWNER  |                              |
| 1557/28820  | •  |                              |
| ADAMS BURNESS FORMS 9013 (3-PART FORM)  |  |                              |
| INIFORM STRAIGHT BILL OF LADING Original—   | Not Negotiable—Domestic  | _                            |
|   | Shipper's #  |                              |
|   | Carrier Agent's No.  |                              |
| HECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill  | , CAU 4/6  | . )                          |
| at  | 7 from SHOAL SITE (30mi SE of Follow,  | (40)                         |
| 1.— property under the associatives on early to the small petro of delivery of deal deliverable. A de las for his self-tile, maker any, implicitly of any free effects of the last to the best fine effects of the self-tile effects of the self-ti | nte er mans, ur milin ha hviday ul na fujimay delainina, diharusa in dukun in aydiya dunur in 10- anda in undukun il in nabuhi apted.<br>Mi propriy, ikat anny narusa in na parimtad herauter sheli ini nabuti in al da dandarus All problem by ini, unduk problem propied ar unduk huran ki<br>Mi   | as to week conser-           |
| - 44 / -  | (Mail or street address of consignee-For purposes of notificat   | tion only.)                  |
| Consigned to BECHTEL NEVADA (FOI  | 2 DOE/NU)  |                              |
| Destination NEVADA TEST SITE (NTS)  | State of Zip Code County of N  | E.                           |
|   | Delivering   |                              |
| Routing   | Carrier McVaus or Car Initial No.  |                              |
| ollect On Delivery and remit to:  |  | ipper [                      |
| Street  | Subject to Section 7 of cities the shipment is to be delevel consigner without recourse or   | ered to the                  |
| No. Description of Articles, Special Marks, and Exceptions  | Weight Class Check signor the consignor shall st   | ign the fol-                 |
|   |  | delivery of<br>nt of freight |
| hydrocarbons (does not exceed<br>to disposal at NTS Area  | 1600 mg/kg 7791) (Signature of Consign   | or.)                         |
| to disposal at NTS Area   | If charges are to be precedured from the charges are to be precedured from the charge from the charges are to be precedured from the charges are t | aid, write or                |
| Hydro carbon land Fill  |  |                              |
| BN Truck # BNOOB?   | Received 8 property of the charge property described hereon.   | to apply to                  |
|   | Agent or Cashier   |                              |
| LOAD#1  | Per the signature here acknowled the amount Prepaid.)  | iges only                    |
| ter chipment moves between two parts by a carrier by upon, the law requires that the bill of lating shall state<br>her shapers are required to sale specifically in writing the aprecd or declared value of the projectly.  | whether it is "carrier's or shipper's weight." NOTE-Where the rate is department. Charges Advanced:  |                              |
| agreed or declared value of the property to hereby<br>catcally stated by the obligher to be not exceeding   | S  |                              |
| Shipper, Per_   | Agent, Per   | ζ                            |
| Shipper, Per  | Agent, Per   |                              |

A CONTRACTOR OF THE PROPERTY O

| ov <u>St. 61</u>  | Public FEE S82 No. OF UI   | LICENSE NO.  |
|---|--|--|
| WEIGHT AND MEASURE nandise was weighed by a aster Law, NRS, Chapter 1  DATE   | Public 582  NO. OF UI 10  TRUCK I 10  ORIVER O  DRIVER O                       | NITS   |
| DATE JAMES Weighed by a aster Law, NRS, Chapter of the control of | Public 582  NO. OF UI 10  TRUCK I 10  ORIVER O  DRIVER O                       | NITS   |
| DATE 3/20 RS NAME 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   | NO. OF UI  NO. OF UI  NO. OF UI  OF TRUCK I  NO. DRIVER O  DRIVER O  SMEDLEY'S | NITS   |
| TRAILER LICENSE   | NO. OF UI O TRUCK I NO. DRIVER O DRIVER O                                      | ND   |
| EQUIPMENT P TRAILER LICENSE I   | NO. OF UI O TRUCK I NO. DRIVER O DRIVER O                                      | ND   |
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| DRIVER DE LE  | DRIVER O   |  |
| Dave.   | SMEDLEY'S  |  |
|   |  | <del></del>  |
| ov <u>St. 61</u>  | UBLIC WEIGHMASTER  |  |
|   | _/   |  |
|   | DEPUTY   | <u> </u>   |
| <del></del>   | H. SMITTEN - OWNER   |  |
| Carrier   | Agent's N  | io.  |
|   |  | 20 916   |
| SHOAL SITE  | (30 M) SE  | - 6 / 5/60 NV)   |
| (Mail or s  | reet address of consignee  | For purposes of notification on  |
| <u>/</u> )  |  |  |
| ite ofZip   | Code   | County of NYE  |
| ivering McUne   | Vehicle  |  |
|   |  | O. D. charge Shipper<br>be paid by Consigne  |
| City  | SA-A- III  | Subject to Section 7 of condition<br>as shipment is to be delivered to   |
|   |  | onsignee without recourse on the o<br>gnor, the consignor shall sign the<br>wing statements:   |
| carbons   |  | The carrier shall not make deliver<br>as shipment without payment of tru<br>nd all other lawful charges.   |
|   |  | (Signature of Consignor.)  |
| mcark-  |  | If Charges are to be prepaid, writing here, "TO BE PREPAID."   |
|   |  |  |
|   |  | Received S to appropriate to appropr |
| 1/1/00  |  | reperty described hereon.  Agent or Cashler  |
| 10/10   |  | ·  |
|   |  | the signature here acknowledges or<br>he amount Prepard.)<br>Charges Advanced:   |
| carrier's or enipoer's weight." - NOTE-WY   |  |  |
|   | Carrier  SHOAL SITE  (Mail or a)  Ite of                                       | (Mail or street address of consigned vehicle or Car Initial Column Color)  City State  (Sub to Cor.) Class Check to Column the colum |

| STATE OF NEVADA  |  | N- 004   |  |
|--|--|--|--|
| PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIG  This is to certify, That the following - described marchandis  Weighmaster as prescribed by the Public Weighmaster   | e was weighed by a Public  | No. 681  | <b>79</b><br>∞   |
| 79980 LB 8:32A 8-25-97   | 8/25/9   | <sub>ح</sub> احج   | h_   |
| TARECUSTOMERS NAM  |  | ain  | · · · ·  |
| СОММООЛ  | ·Cont Soil   | NO. OF UNITS   |  |
| SMEDLEY'S  1755 RENO HIGHWAY PHONE (702) 423 5500  FALLON: NEVADA 89406  | TRAILER LICENSE NO.  | DRIVER ON  |  |
|  | Dave   |  |  |
| SHIPPER: BELCHIE   | PUBLIC \   | EDLEY'S<br>NEIGHMASTER   |  |
| RECRIVER: NV +EST SIGNT  | Sandy J.H. SM  | EPUT OWNER   |  |
| 954857/20020  Language Supplies Foreign 9013 (3-9487 FORE)  UNIFORM STRAIGHT BILL OF LADING Original—Not   | Negotiable—Dom   | estic  |  |
|  | Carrie   | Snippe   |  |
|  | om <u>SHOALS<i>17E</i>(</u>  |  | F Fellos, NU)  |
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| Collect On Delivery \$ and remit to:   | ·  |  | C. O. D. charge   Shipper   te be paid by   Consignee  |
| No. Packages Description of Articles, Special Marks, and Exceptions  | City   | Class Check or Rate Column   | Subject to Section 7 of conditions, if<br>this shipment is to be delivered to the<br>consignee without recourse on the con-<br>signor, the consignor shall sign the fol-<br>lowing statements: |
| 1 - Zoyd3 load soil with petroles.   | <b>~</b>   | or Rate Column   | The casier shall not make delivery of<br>this shipment without payment of freight<br>and all other lawful charges.   |
| Mydrocarbons (does not execut 1)   |  |  | (Signature of Consignor)  If charges are to be prepaid, write or stamp here, "TO SE PREPAID,"  |
| Harada (and CI) Tolk Tolk  | ENDOS/   |  | Received \$to apply to prepayment of the charges on the  |
|  |  |  | property described hereon.   |
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| "I the expense areas between two parts by a corner by water, the law expures that this of lading shall state whether<br>on value, alreaders are required to allow specifically in writing the agreed or declared value of the property.  The operand or declared value of the property to harsely  |  |  | Agent or Casher  Per (the eigneture here acknowledges only the amount Prepaid.)  |

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(This Bill of Lading is to be syned by the shipper and sport of the center beauty same.)  $Rill\ of\ ladin\sigma$ 

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| STATE OF NEVA   |  |  | •  |  |
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| PUBLIC WEIGHMASTER'S CERTIFICATE OF<br>This is to certify. That the following - described march<br>Weighmaster as prescribed by the Public Weighm   | WEIGHT AND MEASUR  | E  | 68178<br>"7 <u>9</u> 0   |  |
| GROSS 60200 LB 8:28A 8-25-97  | DATE 6/20  | 5/97 L   | _Cash_   |  |
|   | DONESS   | 11   | irans.   |  |
| SMEDLEY'S   | MODITY CONT. SC  |  | K LICENSE NO.  |  |
| 1755 RENO HIGHWAY PHONE (702) 422 5500 FALLON, NEVADA 89406   | DRIVER DLICENSE  | DRIVER   |  | •  |
| SMIPPER: Belchle  | PI   | SMEDLEY'S<br>UBLIC WEIGHMASTE  | n  |  |
| RECEIVER: NO TEST SIGHT   | «Sand  | H. SMITTEN - OWNE  | xon_   |  |
| 954557/28620  Z ADAMS BUSINESS PORMS 9013 (3-PART FORM)   |  | ,  |  |  |
| UNIFORM STRAIGHT BILL OF LADING Original—Not N  | egotiable—Dom  | estic ship   | per's #  |  |
|   |  |  |  |  |
| RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading.   | Carrie   | CAU-   | nt's No.   |  |
| at 8/25_19_97 from  |  |  |  | رم   |
| at8/zs_19_97 from   | SHOAL SITE (7  | CAU-   | 916<br><u>• Fellor, N</u>  | Company of process of  |
| at 8/25 19 97 from  Consigned to BECHTEL NELSON (Fac DIE  | (Mail o  | CAU-<br>omi SE of  | Fellon, M  |  |
| at 8/zs_19_97 from  Consigned to BECHTEL NEUROS (For DOE)  Destination Nevada Test Site SI  Routing Co  | (Mano  | Tip Code   | InitialN   | NE   |
| at  | (Mail of NV)   | Tip Code   | Gree-For purposes of  County of  Initial No.  C. D. D. charge le be paid by  | Shipper Consignee  |
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| at  | SHOAL SITE (7)  (Mail of NV )  Alivering Mc Vane  City               | r street address of cons  Zip Code  Vehicle  or Car  State  Class Check Column | County of  County of  Co. D. charge is to paid by  Subject to Section this shipment is to  consignee without re signor, the consigno to the co | Shipper Consignee 7 of conditions, if the delivered to the course on the contra shall eight the following the course of the contra the course of the course  |
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| at  | SHOAL SITE (7)  (Mail of NV )  Alivering Mc Vane  City               | r street address of cons  Zip Code  Vehicle  or Car  State  Class Check Column | County of  | Shipper Consignee 7 of conditions, it is delivered to the course on the contract of shall sign the following the course of the c |
| at  | SHOAL SITE (7)  (Mail of NV )  Alivering Mc Vane  City               | r street address of cons  Zip Code  Vehicle  or Car  State  Class Check Column | County of County of Subsect to Section this shipment is to consigned the consigned to the subsect to Section this shipment is to consigned the consigned to consigned the consig | Shipper Consignee 7 of conditions, it is delivered to the course on the contract of shall sign the following the course of the c |
| Consigned to BECHTEL NEUROS (For DE)  Destination Nevels Test Site  Routing Collect On Delivery  S and remit to:  Street  Packages Description of Articles. Special Marks, and Exceptions  1 Zoyd load of Soil with pethologies.  hydrotarion: (deel not excel 1600 my kg street  Hydrotarion: Landa 1 BN Trading # 5/  BN 0087 | SUPAL SITE (3  NU)  ate of NU  elivering Mc Vane  City  (Sub D Cor.) | Zip Code Vehicle or Car  State or Rate Chara                                   | County of County | Shipper Consignee 7 of conditions, it is delivered to the course on the contract of shall sign the following the course of the c |

|  | PUBLIC WEIGHMASTER'S C This is to certify, That the following Weighmaster as prescribed by the   | TE OF NEVADA CERTIFICATE OF WEIGHT   |  |                             | Va 6   |   | 7  |
|--|--|--|--|-----------------------------|--|---|--|
|  | This is to certify, That the following   | JERTIFICATE OF WEI<br>- described marchand   | へいて もいわ しょきょぐいき  |                             | Nu. O  | 8199  | •  |
|  |  | ne Public Weighmaster  | ise was weighed by a   | Public                      | FE   | 700   |  |
|  | 87920 LB 6:56A 8-26-97 GROSS X   | , QA   | $\frac{8}{2}$  | 40                          | <u> </u>   |   |  |
|  | 1ARE   | CUSTOMERS NA<br>ADDRE  | <del>- 10 30 001</del>   | rtle                        |  |   |  |
|  |  | COMMOO   | Contangue Sort   | 00                          | NO. OF   | UNITS                                       |  |
|  | SMEDLEY'S  |  | EQUIPMENT  | NO.                         | TRUCK  | LICENSE NO                                  | •  |
|  | 1755 RENO HIGHWAY PHONE ( 707) 423 5500<br>FALLON, MEVADA 89404  |  | DRIVER LICENSE   | NO.                         | DRIVER   |   |  |
|  | 1 2 2 1  |  | ,  | SMED<br>PUBLIC WE           | LEY'S<br>GHMASTE   | R   |  |
|  | BECEIVER WOUNDS TO   | tete   | er Ima   | ua.                         | Pus  | <i>H</i>                                    |  |
|  |  |  |  | I.H. SMITT                  |  | a   |  |
| RECEIVED, autopace   | to the classifications and lanffs in effect on the date of the ise   |  | Carrie   | r<br>CAU                    | Shippe<br>Agent'   |   |  |
| at   | 8/26   |  |  | r                           | Agent'   |   | (UV)   |
| at   | B/ZG.  | 19 <u>97</u> from S  | HOAL SITE (  | CAU (                       | Agent<br>116<br>SE   | 8 No.                                       | CUV)   |
| AT   | BECUTEL NEURS (FO  | 19 <u>97</u> from <u>S</u>   | (Mail o  | CAU 30 Mills Street address | Agent'   | of Fallon                                   |  |
| Consigned Destination  | 8/26.  BECUTEL NEURON (FO NEUROR TEST SITE   | 19 <u>97</u> from S  | (MANO  | CAU 30 mi                   | Agent 116 SE ss of consig  | of Fellon, nee-For purposes of r  County of | NYE  |
| consigned Destination  | 8/26.  BECUTEL NEURON (FO NEUROR TEST SITE   | 19 97 from S<br>oz Doe (NV) State Delive   | (Mail o  | CAU 30 mi                   | Agent' 116 SE ss of consig   | County of                                   | NYE Shipper Consigner  |
| Consigned Destination Routing Collect On D   | 8/76.  10 BECUTEL NEURS (FO  NEUROR TEST SITE  Delivery  | 19 97 from S<br>oz ZOE/VV) State Delive Carrie   | (Man o   | CAU  30 Mills Street addre  | Agent' 116 SE see of consignation of the control of | County of                                   | Shipper Consigner  |
| Consigned Destination  Routing  Collect On D  Packages   | B/ZL  BELLITEL NEURA (FO  NEURO)  BELLITEL NEURA (FO  NEURO)  Bellivery  and remit to:  Street  Description of Articles, Special Marks, and Exception  | 19 97 from S  oz Dos/VV)  State  Delive  Carrie  | (Man o   | CAU 30 mi                   | Agent' 116 SE ss of consig   | County of                                   | Shipper Consigner Consigne |
| Consigned Destination Routing Collect On D \$  | BECUTEL NEURON (FO NEURON TEST SITE  Street  Description of Articles. Special Marks, and Encaption  yd3 load of petroleum  (does not exceel 1600 m   | 19 97 from S  State Delive Carrie  hydrocorter  g/Kg TPH)  | (Man o   | CAU  30 Mills Street addre  | Agent' 116 SE see of consignation of the control of | County of                                   | Shipper Consigner 7 of conditions delivered to course on the cashall sign the timake delivery payment of the larges. Consignor 1   |
| Consigned Destination  Routing  Collect On D  And Destination  Collect On D  And Destination  Collect On D  And Destination  Collect On D  | BECUTEL NEURON (FOR NEURON (FO | 19 97 from S  State Delive Carrie  hydrocolor  glkg TPH)  Hydro-   | OHOAL SITE ( Contract of the second of the s | CAU  30 Mills Street addre  | Agent' 116 SE see of consignation of the control of | County of                                   | Shipper Consigner 7 of conditions delivered to course on the cashall sign the timake delivery payment of the larges. Consignor 1   |
| Consigned Destination  Routing  Collect On D  And Destination  Collect On D  S  And D  An | BECUTEL NEURON (FO NEURON TEST SITE  Street  Description of Articles. Special Marks. and Encaption  yd3 load of petroleum  (does not exceel 1600 m   | 19 97 from S  State Delive Carrie  hydrocolor  glkg TPH)  Hydro-   | OHOAL SITE ( Contract of the second of the s | CAU  30 Mills Street addre  | Agent' 116 SE see of consignation of the control of | County of                                   | Shipper Consigner Consigner Consigner Consequence Consequence Consequence Consequence Consequence Consequence Consequence Consequence Local Consequence Loca |
| Consigned Destination  Routing  Collect On D  And Destination  Collect On D  S  And D  An | BECUTEL NEURON (FOR NEURON (FO | State Delive Carrie  hydrocorbor  Hydro-  Hydro-   | OHOAL SITE ( Contract of the second of the s | CAU  30 Mills Street addre  | Agent' 116 SE see of consignation of the control of | County of                                   | Shipper Censignes  7 of conditions  7 of conditions  6 delivered to course on the c  8 shall sign the  8 make delivery  9 payment of fre  10 applications   |
| Consigned Destination  Routing  Collect On D  And Destination  Collect On D  S  And D  An | BECUTEL NEURON (FOR NEURON (FO | 19 97 from S  State Delive Carrie  hydrocolor  glkg TPH)  Hydro-   | OHOAL SITE ( Contract of the second of the s | CAU  30 Mills Street addre  | Agent' 116 SE see of consignation of the control of | County of                                   | Shipper Consigner Consigner T of conditions on the control of the  |
| Consigned in Destination Collect On D  No. Packages  The showers would be considered to the collect on the coll | BECUTEL NEURON (FOR NEURON (FO | State Delive Carrie  hydrocorbor  Hydro-  Mydro-  Mydr | (MAN o  Of NV  Fring McVan  (Sub to Cor)   | CAU  30 M  street addre     | Agent  116  SE  ss of consig  Wehicle or Car ir  State Check Chumn   | E No.  Fee Ilon.  County of                 | Shipper Consigner Consigner T of conditions on the control of the  |

| STATE OF NEVADA  | W 68200   |                  |
|--|---|------------------|
| PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIG This is to certify. That the following - described marchandis   | HT AND MEASURE NO. DOZUU  |                  |
| Weighmaster as prescribed by the Public Weighmaster I<br>103550 LB 7:00A 8-25-97   | Law, NRS, Chapter 582 Cash  |                  |
| GROSS  | 1 0 1 1   |                  |
| NET 628009 CUSTOMERS MAAN  |   |                  |
| соммоон  | Contagnated NO. OF UNITS  |                  |
| SMEDLEY'S  | EQUIPMENT NO. TRUCK LICENSE NO.   |                  |
| 1755 RENO HIGHWAY PHONE (702) 423 5500<br>FALLON: NEVADA 99406   | TRAILER LICENSE NO. DRIVER ON. DRIVER OFF.  |                  |
|  | White   |                  |
| Bolah H.   | SMEDLEY'S<br>PUBLIC WEIGHMASTER   |                  |
| RECEIVER: Newadon Est Site   | y Imma Pyatt  |                  |
| •  | DEPYTY<br>J.H. SMITTEN - OWNER  |                  |
| 194557 / 28620   |   |                  |
| E ADAMS BUSINESS FORMS 9013 (3-PART FORM) UNIFORM STRAIGHT BILL OF LADING Original—N   | int Nagotishia—Domestic   | · •              |
| ON ONNOTHION BILL OF EADING ORIGINAL TO  | Shipper's #   |                  |
| FECEIVED, subject to the classifications and lands in effect on the date of the issue of this Bill of  | <del>(</del>  | G                |
| at   | from SHOAL SITE (30M) SE of Fallon, NV  | _                |
| The curved and recomplement of all day appeared and make to deliberation and as to excit purity as any time recommend in all or tray of seed in authors in the charged where a provided to the transport and accordance for herealth and the account of the contract of the co | (Mail or street address of consignee-For purposes of notification of  | niy.)            |
| Consigned to BECHTEL NEUROA (FOR DOS   |   | $\dashv$         |
| Destination NEUADA TEXT SITE   | State of Zip Code County of Vehicle   | -                |
| Routing Collect On Delivery  | Carrier Mc or Car Initial No.   | =                |
| \$ and remit to:   | to be paid by Consign Subject to Section 7 of conduc  |                  |
| Street   | CityState this shipment is to be delivered to consignee without recourse on the   | con-             |
| Description of Articles. Special Marks, and Exceptions  1 - 20yd 3 load of petroleum hydrocas  | (Sub. to Cor.) Class Check Column Submor in Consumer shall soft in Check Column Statements:  The carrier shall not make delet this shammer without payment of I and all other lawful charges. | rry of<br>reight |
| soil (does not exceed 1600 mg/kg TPH)  |   |                  |
| to disposal at NTS Area 6 Hydroo   | (Signature of Consignor)  * Charges are to be prepaid. stanp from -TO SE PREPAID.   | tie or           |
| Land II - BN Tracking # BN-0087  |   |                  |
|  | Received 5 io at properly men of the charges or properly described hereon.  | ply to           |
|  | Allerell Agent or Casher  |                  |
|  | ,   |                  |
| Loso B   | (the agneture here acknowledges the amount Prepaid.)  | inty             |
| If the singularial moves between two ports by a corner by water, the law requires that the bill of lading shell dates we require a singularial to state specifically in water) the opened or declared value of the property  | (the signature here acknowledges  | nerty            |
|  | (the signature here acknowledges the amount Prepaid.)   |                  |

| STATE OF NEV   | A STATE OF THE STA | -  |
|--|--|--|
| PUBLIC WEIGHMASTER'S CERTIFICATE C   | DF WEIGHT AND MEASURE  |  |
| This is to certify. That the following - described ma<br>Weighmaster as prescribed by the Public Weigh   | richandise was weighed by a Public hmaster Law, NRS, Chapter 582   |  |
| 95880 LB 6:49A 8-25-97   | DATE 8 126197  |  |
| 31480<br>TARE 0.510  | MERS NAME BOICHTIGE  |  |
| NET  | Con tami, Noted  |  |
|  | COMMODITY SC // NO. OF UNITS   |  |
| SMEDLEY'S  | 19   |  |
| 1755 RENO HIGHWAY PHONE (702) 423 5500<br>FALLON, NEVADA 89406   | TRAILER LIGENSE NO. DRIVER ON. DRIVER OFF  | •  |
|  | Rick   |  |
| R. L. Parl   | SMEDLEY'S PUBLIC WEIGHMASTER   |  |
| SMIPPER: Belchtle  | Imma-Parott  |  |
| RECEIVER: NEUDCIAL TEST STIE   | DEPUTY J.H. SMITTEN -OWNER   |  |
| 54557/28620  Adams Burderes Forms  9013 (3-PART FORM)  |  |  |
| JIVIFURM STRAIGHT BILL UF LADING <b>Original—</b>  | Not Negotiable—Domestic  |  |
| JNIFORM STRAIGHT BILL OF LADING Original—  | Carrier Agent's No.  |  |
| RECEIVED, subject to the classifications and tanifs in effect on the date of the issue of this Bid   | Carrier Agent's No.  CAU 4/6   | د د  |
| RECEIVED, subject to the classifications and tentts in effect on the date of the issue of this Bit  8/76 19 9  | Carrier Agent's No.  | U)  To comparation in patient  To opposit also in opini  |
| RECEIVED, subject to the classifications and tanifs in effect on the date of the issue of this Bill  at  | Carrier Agent's No.  1 of Lading.  7 from SHOAL STE (30 m) SE of To lbs., No.  (Mail or street address of consignee—For purposes of no.  | or corporation in Philips<br>by agreed, as to pitch o<br>h, human consumple. The   |
| RECEIVED, subject to the classifications and tanifs in effect on the date of the issue of this Bit at  | Carrier Agent's No.  1 of Lading.  7 from SHOAL STE (30 m) SE of To lbs., No.  (Mail or street address of consignee—For purposes of no.  | or compression in place<br>or appeal as to each<br>in home community. The<br>otification only  |
| RECEIVED, subject to the classifications and taniffs in effect on the date of the issue of this Bit B/7C 19 9 7 19 19 19 19 19 19 19 19 19 19 19 19 19   | Carrier Agent's No.  1 of Lading. CAU 4/C  7 from SHOAL SYTE (30 m) SE of Tollow, N  (Mell or street address of consignee—For purposes of m  | or common as to other as to o  |
| RECEIVED, subject to the classifications and taniffs in effect on the date of the issue of this Bate B/ZC 19 9 1 19 19 19 19 19 19 19 19 19 19 19  | Carrier Agent's No.  1 of Lading. CAU 4/16 7 from SHOAL STE (30 m) SE of Tallow, No.  (Mail or street address of consignee—For purposes of no.  State of NU Zip Code County of Delivering AALLA Vehicle  | otification only   |
| RECEIVED, subject to the classifications and taniffs in effect on the date of the issue of this Barat BAZC 19 9 19 19 19 19 19 19 19 19 19 19 19 1   | Carrier Agent's No.  7 from SHOAL STE (SOM) SE of Tello, No.  (Mell or street address of consignee—For purposes of months of the state  | Shipper Cansigner of conditions of the conditions of conditions of the conditions of |
| RECEIVED, subject to the classifications and tanifs in effect on the date of the issue of this Bit BITC. 19 9 The second of the classifications and tanifs in effect on the date of the issue of this Bit BITC. 19 9 The second of the control of the  | Carrier Agent's No.  1 of Lading.  7 from SHOAL STE (30 m) SE of To lbo, No.  (Mail or street address of consignee—For purposes of months of the street address of consignee—For purposes of months of the street address of consignee—For purposes of months of the street address of consignee—For purposes of months of the street address of consignee—For purposes of months of the street address of consignee—For purposes of months of the street address of consignee—For purposes of months of the street address of consignee—For purposes of months of the street address of consignee—For purposes of months of the street address of consignee without not consignee w | Shipper Censions Conditions Continue Co |
| ACCENTED, subject to the classifications and tentits in effect on the date of the issue of this Bit at   | Carrier Agent's No.  7 from SHOAL STE (30 m) SE of Tellow, No.  (Mell or street address of consignee—For purposes of more purposes of more purposes.  (Mell or street address of consignee—For purposes of more purposes.  (State of No Zip Code County of Delivering No. Carrier Or Carrier Or Carrier Or Carrier Or Carrier Or Carrier State  (Subject to Section this street shall not be a subject to section the street shall not be a subject to section the street shall not be a subject to section the street shall not be a subject to section the street whou it is to be a subject to section the street whou it is to be a subject to section the street whou it is a street without not subject to section the street whou it is at a street without it is and an other tawful characters.   | Consumer a many control of the contr |
| ACCENTED, subject to the classifications and tentits in effect on the date of the issue of this Bit at   | Carrier Agent's No.  7 from SHOAL STE (30 m) SE of Tellow, No.  (Mell or street address of consignee—For purposes of more purposes of more purposes.  (Mell or street address of consignee—For purposes of more purposes.  (State of No Zip Code County of Delivering No. Carrier Or Carrier Or Carrier Or Carrier Or Carrier Or Carrier State  (Subject to Section this street shall not be a subject to section the street shall not be a subject to section the street shall not be a subject to section the street shall not be a subject to section the street whou it is to be a subject to section the street whou it is to be a subject to section the street whou it is a street without not subject to section the street whou it is at a street without it is and an other tawful characters.   | Shipper  Shipper  Censignes  7 of conditions of delivery anyment of free conditions of the conditions  |
| ACCENTED, subject to the classifications and tentits in effect on the date of the issue of this Bit at   | Carrier Agent's No.  7 from SHOAL STE (30 m) SE of Tellow, No.  (Mell or street address of consignee—For purposes of more purposes of more purposes.  (Mell or street address of consignee—For purposes of more purposes.  (State of No Zip Code County of Delivering No. Carrier Or Carrier Or Carrier Or Carrier Or Carrier Or Carrier State  (Subject to Section this street shall not be a subject to section the street shall not be a subject to section the street shall not be a subject to section the street shall not be a subject to section the street whou it is to be a subject to section the street whou it is to be a subject to section the street whou it is a street without not subject to section the street whou it is at a street without it is and an other tawful characters.   | words as with a constant in the constant in th |
| RECEIVED. subject to the classifications and tentits in effect on the date of the issue of this Bit at   | Carrier Agent's No.  7 from SHOAL STE (30 m) SE of Tello, No.  (Mail or street address of consignes—For purposes of months of the street state of  | Shipper Consignes To decondition Consignes Con |
| AECENED. Subject to the classifications and tentils in effect on the date of the issue of this Bate 19 97  BYZC 19 97  Consigned to BECUTEL NEVATA (FO DE/)  Destination NEVADA TEST STE  Routing  Collect On Delivery  and remit to:  Street  PARAGON  Description of Articles, Special Marks, and Exceptions  1 20 yd 3 load of petypolana hydrocarbo  Limital ART Area C BNOOST  | Carrier Agent's No.  7 from SHOAL STELSO MISE of Tellow, No.  (Mail or street address of consignee—For purposes of more present to be addressed to the state of t | Shipper  Shipper  Cansigner  Consigner  Cons |
| AT BACK 19 9 - BAC | Carrier Agent's No.  7 from SHOAL STE (30 m) SE of Te/lor, NO.  (Mell or street address of consignee—For purposes of melling to the street address of consignee—For purposes of melling to the street address of consignee—For purposes of melling to the street address of consignee—For purposes of melling to the street address of consignee—For purposes of melling to the street address of consignee—For purposes of melling to the street address of consignee—For purposes of melling to the street address of consignee—For purposes of melling to the street address of consignee—For purposes of melling to the street address of consignee—For purposes of melling to the street address of t | Charges on the charges on consideration of the charges of the char |
| A BOYCE 19 9  Consigned to BECHTEL NEVATA (For DOE)  Destination NEURON TEST STE  Routing  Collect On Delivery  and remit to:  Street  201 (does not exceed 1600 mg/ts TPH) I disposal at Not exceed 1600 mg/ts TPH) I disposal at NYS Area & Hydrocarbo  Landing BN Treeding & BN0087   | Carrier Agent's No.  7 from SHOAL STE (30 m) SE of Tello, No.  (Mell or street address of consignee—For purposes of months of the street address of consignee—For purposes of months of the street address of consignee—For purposes of months of the street address of consignee—For purposes of months of the street address of consignee—For purposes of months of the street address of consignee—For purposes of months of the street address of consignee—For purposes of months of the street address of consignee—For purposes of months of the street address of consignee—For purposes of months of the street address of consignee—For purposes of months of the street address of the street a | Shipper  Cansigner  Consigner  Co |
| RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bit at 19 9 The second of the issue of the i | Carrier Agent's No.  7 from SHOAL STE (30 m) SE of Tello, No.  (Mail or street address of consignee—For purposes of months of the set of the se | Shipper  Cansigner  Consigner  Co |

| STATE OF NE   | NII. 002U1   |
|---|--|
| PUBLIC WEIGHMASTER'S CERTIFICATE This is to certify, That the following - described r Weighmaster as prescribed by the Public Weighmaster.  | marchandise was weighed by a Public  |
| #84100 LB 7:11A 8-26-97   | 8 /26/87 Cash  |
|   | ISTOMERS NAME & 2601-10  |
| NET 490001  | ADDRESS  |
|   | COMMODITYNO. OF UNITS  |
| SMEDLEY'S   | EQUIPMENT NO. TRUCK LICENSE NO.  |
| 1755 RENO MIGHWAY PHONE (702) 423 5500<br>FALLON, NEVADA 89406  | TRAILER-JCENSE NO. DRIVER ON DRIVER OFF  |
| TALEGO IN THE VIOLENCE OF THE   | DRIVER   |
|   | SMEDLEY'S  |
| SHIPPER BUCKTLE 2   | PUBLIC WEIGHMASTER   |
| RECEIVER HIM da Toxt Site   | e ex la was with   |
| 57/28620  | J.H. SMITTEN - OWNER   |
| IIFORM STRAIGHT BILL OF LADING ORGINA!—   | -Not Negotiable—Domestic Shipper's Carrier Agent's No.   |
| CENED, subject to the classifications and tanife in effect on the date of the issue of this Bit   | Carrier Agent's No.  |
| CEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bit   | Carrier Agent's No.  |
| CENED, subject to the classifications and fariffs in effect on the date of the issue of this Bill   | Carrier Agent's No.  |
| ECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill  8/26_19_26  instruction below. In separate space date, recent as sense reporting and constant of a few of publication and not for the publication of the sense of the publication   | Carrier Agent's No.  Stories Agent's No.  CAU 416  7 from SHOALS 17E (30M) SE of Fallon, AUV  (Mail or street address of consignee—For purposes of notification one  |
| ECENED, subject to the classifications and tentre in effect on the date of the issue of this Bit and the second tentre of the issue of this Bit and the second tentre of the issue of this Bit and the second tentre of the issue of this Bit and the second tentre of the issue of this Bit and the second tentre of the issue of this Bit and the second tentre of the issue of the second tentre  | Carrier Agent's No.  State of NU Zip Code County of NYS  |
| CENED, subject to the classifications and tariffs in effect on the date of the issue of this Bit 8/26 19 97  1. The control of the classifications and tariffs in effect on the date of the issue of this Bit 8/26 19 97  1. The control of the classification of the control of the  | Carrier Agent's No.  State of NU Zip Code County of NYE  Delivering Mc VANE or Car Initial No.    CAU 4/6   Carrier   Cause   County of NYE    Carrier   Car |
| consigned to NEVATA TEST SITE  outling  liect On Delivery  and remit to:  | Carrier Agent's No.  7 from SHOALS ITE (30m) SE of Follow, No.  (Mail or street address of consignée—For purposes of notification one  DE/NU  State of NU Zip Code County of NYE  Delivering MC VANE or Car Initial No.  [C. D. D. charge Is the paid by Consignee  Subject to Section 7 of condenses  |
| CENED, subject to the classifications and tenths in effect on the date of the issue of this Bit   | Carrier Agent's No.  CAU 4/6  7 from SHOALS ITE (30m) SE of Fellon, NV.  [Mail or street address of consignee—For purposes of notification one  DE / VV  State of V Zip Code County of VSE  Delivering Mc VANE or Car Initial No.  [C. D. D. charge Shipper to be paid by Consignee whole reconstruction on the consignee whole reconstruction of the consignee whole reconstruction on the consignee whole reconstruction of the consignee whole reconstruction o |
| CENED. author to the classifications and tenths in effect on the date of the issue of this Bit  | Carrier Agent's No.  CAU 4/6  7 from SHOALS 17E (30m) SE of Follow, AUX  [Mail or street address of consignee—For purposes of notification on the street address of consignee—For purposes of notification on the property of  |
| CENED. subject to the classifications and tenths in effect on the date of the issue of this Bit   | Carrier Agent's No.  CAU 4/6  7 from SHOALS 17E (30m) SE of Follow, Aux  [Mail or street address of consignier—For purposes of notification one  DE/WW  State of V Zip Code County of Vehicle Carrier Vehicle or Car Initial No.  [City State of Role County of Cause of County of Cause and the state of County of Cause and the state of Cause of County of Cause of Cause and the state of Cause of |
| consigned to BECHTEL NEVADA (Foiz Street  outing  | Carrier Agent's No.  CAU 4/6  7 from SHOALS 17E (30m) SE of Follow, Aux  [Mail or street address of consignier—For purposes of notification one  DE/WW  State of V Zip Code County of Vehicle Carrier Vehicle or Car Initial No.  [City State of Role County of Cause of County of Cause and the state of County of Cause and the state of Cause of County of Cause of Cause and the state of Cause of |
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| consigned to BECHTEL NEVADA (Foiz Street  outing  | Carrier Agent's No.  CAU 4/16  7 from SHOALS 17E (30m) SE of Follow, ALV.  The second of the second consistence of the sec |
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| Weighmaster as prescribed by the Public Weighma  | ester Law, NRS, Chapter 582  |                                    |  | ace  |  |
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| 1755 RENO MIGHWAY PHONE (702) 423 5500<br>FALLON, MEVADA 89404   | TRAILER LICENSE NO.  |                                    | ER OFF.  |  |  |
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| NIFORM STRAIGHT BILL OF LADING Original—No   | Carrie   | er                                 | Shippe<br>Agent'   |  | <u>-</u>   |
| ADAME SUSPICES FORMS  9012 (3-PART FORM)  INIFORM_STRAIGHT BILL OF LADING Original—No  RECEIVED, subject to the classifications and tariffs in effect on the date of the class of this Bill of tart.  8/26 19 97   | Carrie   | •                                  | Agent'   |  |  |
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| NIFORM STRAIGHT BILL OF LADING Original—No RECEIVED, subject to the classifications and tariffs in effect on the class of the class of this Bill of Lat.  8/26 19 9 7  Consigned to BECHTEL NEWSON (FOR DO Destination NEW ADA TEST SITE   | from SHOUL SITE (3   | Somi                               | Agent  | Follon, ofCounty of  | NYE  |
| NIFORM STRAIGHT BILL OF LADING Original—No RECEIVED, subject to the classifications and tariffs in effect on the class of the file of this file of the classification at   | from SHAL STE (3  (Meil of Delivering AL (4)   | Somi                               | Agent'   | County of  | NYE  O. Shipper  |
| NIFORM STRAIGHT BILL OF LADING Original—No RECEIVED subject to the classifications and tariffs in effect on the class of the fills bill of Last  | (Mail of Delivering Carrier McLh)  | Somi                               | Agent:   | County of C. D. Charge to be paid by   | O. Shipper Consigner   |
| NIFORM STRAIGHT BILL OF LADING Original—No RECEIVED subject to the classifications and tariffs in effect on the class of the fills fill of Last  | Carrie  SHOW STE (3  (Mell o  E/NU)  State ofNU  | ORU 4/<br>30 mi<br>se street addre | Agent:   | County of  | Shipper Consigner of conditions be delivered to be course on the course of the course  |
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| SMEDLEY'S   | TRAILER LICENSE NO.   | DRIVER ON  |   |
| 1735 REND MIGHWAY PHONE (702) 423 3500<br>FALLON, NEVADA 87406  | DRIFER  | DRIVER OFF   |   |
|   | <u> VALIVIU</u>   | SMEDLEY'S  |   |
| SHIPPER RB Transit  | PUBL  | IC WEIGHMASTER   |   |
| RECEIVER Nevada Test Site   | Inna  | Jugar  |   |
|   | J.H. (  | SMITTEN -OWNER   |   |
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| UNIFORM STRAIGHT BILL OF LADING Original—Not No   | egotiable—Dome  | Stic Shippe  | w's #   |
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|   |   | CAUGIL   |   |
| at <u>8/276</u> 19 <u>9 7</u> from  | S HOAL SITE (   | CAU41L<br>30 mi SE   |   |
| at 8/276 19 97 from  Consigned to BECUTEL NEUROS (FOR DOE)  | SHOAL SITE (Mail or   | CAU41L<br>30 mi SE   | of Fallow, NU   |
| at <u>8/276</u> 19 97 from  Consigned to <u>BECHTEL NEUROA</u> (FOR DOE)  Destination <u>NEUROA</u> TEST SITE St  | SHOAL SITE (Mail or VV)                                       | street address of coneig   | nee-For purposes of notification only.)  County of  |
| at <u>8/276</u> 19 97 from  Consigned to <u>BECHTEL NEWROA</u> (FOR DOE)  Destination <u>NEWROA</u> TEST SITE St.  Routing Callect On Delivery  | SHOAL SITE (Mail or VV)                                       | street address of consigning Code  | County of Nye  County of Nye  Shipper   |
| at  | SHOAL SITE (Mail or VV) ate of                                | street address of consigning Code  Vehicle  or Car fr  | nee-For purposes of notification only.)  County of  |
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| at BIZIO 18 97 from  Consigned to BECHTEL NEUROA (FOR DOE)  Destination NEUROA TEST SITE St.  Routing Callect On Delivery  and remit to:  Street  No. Description of Articles, Special Merks, and Exceptions  1 20 yd 3 Load of petrolum hydrocords  Sonl (does as execut 1600 mg/kg TPH)  For disposa (at NTS A 200 K Hydrologist  Cand FILL BU Tacking BN 0087)  The shower means between two pore by a current by with the majories and the property.  The shower means between two pore by a current by with the majories of distinguished of the property.   | SHOAL SITE (Mail or VV)  ate of                               | ip Code Vehicle or Car Ir  | County of   |
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### APPENDIX D

### LABORATORY ANALYTICAL RESULTS MUD PIT VERIFICATION SAMPLES

Reno • Las Vegas Phoenix • Burbank Reno Division 1030 Matley Lane • Reno, Nevada 89502 (702) 348-2522 • Fax: (702) 348-2546 1-800-368-5221

CLIENT:

International Technology Corporation

4330 S. Valley View #114 Las Vegas, Nevada 89103 ATTN: Kurt Schmidt

PROJECT NAME: Project Shoal PROJECT NUMBER: 771060.07.03

PURCHASE ORDER: 081597BC NEL ID: R9708050-01/09

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 8/19/97, and analyzed as received.

Where applicable we have included the following quality control data; a method blank, used to document contamination resulting from the analytical process, a Laboratory Control Spike (LCS), used to document laboratory performance, and Surrogates, organic compounds which are similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.

Surrogate results were determined following a new calibration curve on 8/23/97. TPH results were not effected.

Should you have any questions or comments, please feel free to contact our Client Services department (702) 348-2522.

Ellen M. Ferguson
Eileen M. Ferguson

Laboratory Manager

Re-carred 8/26/97

CLIENT: International Technology Corporation

PROJECT NAME:Project Shoal PROJECT NUMBER: 771060.07.03

ANALYST:RA

METHOD:

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS BY EPA 8015M,

September 1994

SAMPLE MATRIX: SOIL

| CLIENT ID | DATE<br>SAMPLED      | NEL ID  | RESULTS<br>mg/kg | REPORTING<br>LIMIT                  | Surrogate<br>Recovery | EXTRACTED | <u>analyzei</u> |
|-----------|----------------------|---|------------------|-------------------------------------|-----------------------|-----------|-----------------|
| PSA-V01   | 8/19/97              | R9708050-01<br>C <sub>10-24</sub><br>>C <sub>24</sub> | 21<br>53         | 15 mg/kg<br>15 mg/kg                | 104%                  | 8/20/97   | 8/22/97         |
| PSA-V02   | 8/19/ <del>9</del> 7 | R9708050-02<br>C 10-24<br>>C 24                       | ND<br>ND         | 15 mg/kg<br>15 mg/kg                | 79%                   | 8/20/97   | 8/22/97         |
| PSA-V03   | 8/19/97              | R9708050-03<br>C <sub>10-24</sub><br>>C <sub>24</sub> | 62<br>120        | 15 <b>mg/kg</b><br>15 <b>mg/k</b> g | 115%                  | 8/20/97   | 8/21/97         |

OUALITY CONTROL DATA (Total for Diesel Range):

| Sample ID                   | Result | Acceptable Range | Surrogate<br>Recovery | Acceptable Range |
|-----------------------------|--------|------------------|-----------------------|------------------|
| Method Blank, 082097-E2-BLK | ND     | < 15 mg/kg       | 92%                   | 65-135%          |
| LCS, 082097-E2-LCS          | 85%    | 65-135%          | 107%                  | 65-135%          |
| MS, R9708050-06 MS          | 76%    | 65-135%          | 107%                  | 65-135%          |
| MSD, R9708050-06 MSD        | 79%    | 65-135%          | 105%%                 | 65-135%          |

ND - Not Detected

Surrogate used was n-triacontane, acceptance limits 65-135%.

CLIENT: International Technology Corporation

PROJECT NAME:Project Shoal PROJECT NUMBER: 771060.07.03

ANALYST:RA

METHOD:

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS BY EPA 8015M,

September 1994

SAMPLE MATRIX: SOIL

| CLIENT ID | DATE<br>SAMPLED | NEL ID  | RESULTS<br>mg/kg  | REPORTING<br>LIMIT   | Surrogate<br>Recovery | EXTRACTED | ANALYZED |
|-----------|-----------------|---|-------------------|----------------------|-----------------------|-----------|----------|
| PSA-V04   | 8/19/97         | R9708050-04<br>C <sub>10-24</sub><br>>C <sub>24</sub> | 38<br>130         | 15 mg/kg<br>15 mg/kg | 91%                   | 8/20/97   | 8/21/97  |
| PSA-V05   | 8/19/97         | R9708050-05<br>C <sub>18-24</sub><br>>C <sub>24</sub> | 44<br>170         | 15 mg/kg<br>15 mg/kg | 119%                  | 8/20/97   | 8/21/97  |
| PSA-V06   | 8/19/97         | R9708050-06<br>C <sub>10-24</sub><br>>C <sub>24</sub> | 51<br>130         | 15 mg/kg<br>15 mg/kg | 108%                  | 8/20/97   | 8/22/97  |
| PSA-V06   | 8/19/97         | R9708050-06<br>DUP<br>C 10-24<br>>C 24                | <b>4</b> 7<br>120 | 15 mg/kg<br>15 mg/kg | 97%                   | 8/20/97   | 8/22/97  |

OUALITY CONTROL DATA (Total for Diesel Range):

| Sample ID                   | Result | Acceptable Range | Surrogate<br>Recovery | Acceptable Range |
|-----------------------------|--------|------------------|-----------------------|------------------|
| Method Blank, 082097-E2-BLK | ND     | < 15 mg/kg       | 92%                   | 65-135%          |
| LCS, 082097-E2-LCS          | 85%    | 65-13 <b>5</b> % | 107%                  | 65-135%          |
| MS, R9708050-06 MS          | 76%    | 65-135%          | 107%                  | 65-135%          |
| MSD, R9708050-06 MSD        | 79%    | <b>65</b> -135%  | 105%                  | 65-135%          |

ND - Not Detected

<sup>\*</sup>Surrogate used was n-triacontane, acceptance limits 65-135%.

CLIENT: International Technology Corporation

PROJECT NAME:Project Shoal PROJECT NUMBER: 771060.07.03

ANALYST:RA

METHOD:

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS BY EPA 8015M.

September 1994

SAMPLE MATRIX: SOIL

|           |                 |   |                  |                           |                       |           | '                |
|-----------|-----------------|---|------------------|---------------------------|-----------------------|-----------|------------------|
| CLIENT ID | DATE<br>SAMPLED | NEL ID  | RESULTS<br>mg/kg | REPORTING<br><u>LIMIT</u> | Surrogate<br>Recovery | EXTRACTED | ANALYZE          |
| PSA-V07   | 8/19/97         | R9708050-07<br>C <sub>10-24</sub><br>>C <sub>24</sub> | 33<br>92         | 15 mg/kg<br>15 mg/kg      | 115%                  | 8/20/97   | 8/ <b>22/</b> 97 |
| PSA-V08   | 8/19/97         | R9708050-08<br>C 10-24<br>>C 24                       | ND<br>ND         | 15 mg/kg<br>15 mg/kg      | 76%                   | 8/20/97   | 8/22/97          |
| PSA-V09   | 8/19/97         | R9708050-09<br>C 16-24<br>>C 24                       | 48<br>110        | 15 mg/kg<br>15 mg/kg      | 109%                  | 8/20/97   | 8/22/97          |

OUALITY CONTROL DATA (Total for Diesel Range):

| Sample ID                   | Result | Acceptable Range | Surrogate<br>Recovery | Acceptable Range |
|-----------------------------|--------|------------------|-----------------------|------------------|
| Method Blank, 082097-E2-BLK | ND     | < 15 mg/kg       | 92%                   | 65-135%          |
| LCS, 082097-E2-LCS          | 85%    | 65-135%          | 107%                  | 65-135%          |
| MS, R9708050-06 MS          | 76%    | 65-135%          | 107%                  | 65-135%          |
| MSD, R9708050-06 MSD        | 79%    | 65-135%          | 105%                  | 65-135%          |

ND - Not Detected

<sup>&</sup>lt;sup>a</sup> Surrogate used was n-triacontane, acceptance limits 65-135%.

INTERNATIONAL TECHNOLOGY

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**CHAIN OF CUSTODY RECORD ANALYSIS REQUEST AND** 

Reference Document No. 522355 Page 1 of

> CORPORATION PROJECE STORE Project Manager Ack Deswee Project Name/No. 177/060. 07.03 Purchase Order No. 808/577 & Sample Team Members <sup>2</sup> 🔏 *Cหส*สคง Profit Center No. 336637/0 Required Report Date <sup>11</sup>9-19-97

Lab Destination 8\JEVING ENURGY. Cra Lab Contact 9710NE Francisch ONE CONTAINED DED IN Project Contact/Phone 1251/2 Hensy Samples Shipment Data 78-75-97 Carrier/Waybill No. 13 July

White: To accompany sample 4. Urace Just #114 Bill to:5 II Copposition つ マ AS VEGAME. 4330

FAX 702-794-1794 702 700 10 KURT SCHWIBE HEDDIT 10 KURT SCHWIBE

|  |   |  | היים<br>היים                            |   | ווחבת                |                                 |                            |             | de       |
|--|---|--|---|---|----------------------|---------------------------------|----------------------------|-------------|----------|
| Sample 14<br>Number  | Sample 15<br>Description/Type                 | Dete/Time <sup>16</sup> Container <sup>17</sup> Sample <sup>18</sup> Collected Type Volume ( | Container <sup>17</sup><br>Type         | Sample <sup>18</sup> Pre- <sup>19</sup><br>Volume servative | Pre- 19<br>servative | Requested Teating 20<br>Program | 20 Condition on 21         | Disposal 22 | 5        |
| PSA-VO1  | Soil - DRY                                    | B-19-97<br>1/65  | ۱ ٪                                     | 804   | 100 /                | THY IN BOIS-M                   | 80                         |             | Yello    |
| PSA- VOZ   |   | 8-19-97  | 0.00 A 10 |   |                      |                                 | <u> </u>                   | AB          | w: Fie   |
| PSA· Va3   |   | 44+8   |   | -   |                      |                                 | R9 4350 G                  | MEY         | id cop   |
| PSA-VOY  |   | (b-4-8)  |   |   |                      |                                 | KG JUSUSA ON               |             | <u>y</u> |
| DSA - VOS  |   | 16-8-1   | 1                                       |   |                      |                                 | 10 9 2 1-12 W. C.          |             |          |
| Den - 125  | CINE DELETED                                  | 8-19-97  |   |   |                      |                                 | TORT                       |             |          |
| 0  | 700 5-17-17                                   | _  |   | 2   |                      | `                               | ALC BOOME -                |             | ts       |
| PSA- Y06   |   | 8-19-97  |   | 1602  |                      |                                 | R9703050-01                |             | iee ba   |
| PSA-V07  |   | 8-19-17  | <del>&gt;</del>                         | 208   | <b>→</b>             | ^                               | 10-03080-07                |             | ick of   |
| Special Instruction  | Special Instructions: 23 MS/MSD FRom PSA-VO6  | O FROM   | PSA-VC                                  | 96  |                      |                                 |                            |             | form     |
| Possible Hazard Identification: 24 Non-hazard X Flammable  S | l Identification: 24<br>Flammable 🔲 🛚 Skin Im | 24<br>Skin Irritant 🛄 Pois   | Poison B 🛄                              | Unknown   |                      | Sample Disposal; 25             | Disposal by Lab XI Archive | (mos.)      | for sp   |

No. 2 - 794-178-4 Custody Seal Infact? Y . N 0 K. SCHWIDE

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FRX RESULTS

Comments: 29

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Project Specific (apecify) a Party Strong Request France

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD (cont.)\*

Project No. 77/060 07 03 0000

Reference Document No. 30 522355 Page 2 of 2

Samples Shipment Date 8-19-97

Project Name Regiect Such

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|-------------|---------------------------------|-----------------|--|-------|------|------------|----|--------|--------|-----|-----|-------|------|--------|--------|-------|-------|---------|--------|-----|---|
| -           | Disposal 22<br>Record No.       | 4D-             | e de la companya de l | ONLY  |      |            |    | LAB    | ATNO   |     | CAB |       | LAB  | ONLY   | 5      |       |       | LAB     | ONLY   | •   |   |
|             | Condition on 21<br>Receipt      | K97UXds         | ROFOR  |       |      |            |    | HOR    |        |     |     |       | FOR  |        |        |       |       | FOR     | USE    |     |   |
| PER LINE    | Requested Testing 20<br>Program | TRIN BOK-M      | 7  |       |      |            |    |        |        |     |     |       |      | •      |        |       |       |         |        |     |   |
| CONTAINER P | Pre-19<br>servetive             | ZCK.            |  |       |      |            | ·  |        |        |     | ·   |       | ,    |        |        | ···   |       |         |        |     |   |
| CONTA       | Sample 18<br>Volume             | 80%             | 7  |       |      |            |    |        |        |     |     |       |      |        |        |       |       |         | ٠      |     |   |
| ONE         | Container <sup>17</sup><br>Type | Bus<br>CIR Glas | 7  | 97    |      |            |    |        |        |     |     |       |      |        |        | ·     | ·     |         |        |     |   |
|             | Date/Time 16<br>Collected       | 8-19-97         | 64-47  | 8-6-8 |      |            |    |        |        |     |     |       |      |        |        |       |       |         |        |     |   |
|             | Sample 15<br>Description/Type   |                 |  | 0     |      |            |    |        |        |     |     | 100   | Mya  | اح َ   | aA     |       |       |         |        |     |   |
|             | Sample 14<br>Number             |                 |  | 1     |      |            |    |        |        |     |     |       |      |        |        |       |       |         |        |     |   |

Reno - Las Vegas Phoenix • Burbank

Reno Division 1030 Matley Lane • Reno, Nevada 89502 (702) 348-2522 • Fax: (702) 348-2546 1-800-368-5221

CLIENT:

International Technology Corporation

4330 S. Valley View #114 Las Vegas, Nevada 89103 ATTN: Kurt Schmidt

PROJECT NAME: Project Shoal PROJECT NUMBER: 771060.07.03 **PURCHASE ORDER: 081597BC** NEL ID: R9708065-01/05

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 8/25/97, and analyzed as received.

Where applicable we have included the following quality control data; a method blank, used to document contamination resulting from the analytical process, a Laboratory Control Spike (LCS), used to document laboratory performance, and Surrogates, organic compounds which are similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.

Should you have any questions or comments, please feel free to contact our Client Services department (702) 348-2522.

Eileen M. Ferguson

Laboratory Manager

8/28/97 Date

CLIENT: International Technology Corporation

PROJECT NAME:Project Shoal PROJECT NUMBER: 771060.07.03

ANALYST:RA

METHOD: TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS BY EPA 8015M, September

1994

SAMPLE MATRIX: SOIL

| CLIENT ID | DATE<br>SAMPLED | <u>NEL ID</u>                          | RESULTS<br>mg/kg | REPORTING<br>LIMIT                  | Surrogate<br>Recovery | EXTRACTE<br>D | ANALYZE |
|-----------|-----------------|--|------------------|-------------------------------------|-----------------------|---------------|---------|
| PSA-V10   | 8/25/97         | R9708065-01                            |                  |                                     |                       |               |         |
|           |                 | C <sub>10-24</sub><br>>C <sub>24</sub> | ND<br>ND         | 15 <b>mg/kg</b><br>15 <b>mg/k</b> g | 97%                   | 8/26/97       | 8/26/97 |
| PSA-V11   | 8/25/97         | R9708065-02                            |                  | •                                   | •                     |               |         |
|           |                 | C <sub>10-74</sub><br>>C <sub>24</sub> | ND               | 15 mg/kg<br>15 mg/kg                | 103%                  | 8/26/97       | 8/26/97 |
| PSA-V12   | 8/25/97         | R9708065-03                            |                  |                                     |                       | •             |         |
|           |                 | C <sub>10-24</sub><br>>C <sub>24</sub> | ND<br>ND         | 15 mg/kg<br>15 mg/kg                | 96%                   | 8/26/97       | 8/26/97 |
| PSA-V12   | 8/25/97         | R9708065-03D                           |                  |                                     |                       | •             |         |
| Duplicate |                 | C <sub>10-24</sub><br>>C <sub>24</sub> | ND<br>ND         | 15 mg/kg<br>15 mg/kg                | 102%                  | 8/26/97       | 8/26/97 |
| PSA-V13   | 8/25/97         | R9708065-04                            |                  |                                     |                       | •             |         |
|           |                 | C 10-24<br>>C 24                       | ND<br>ND         | 15 mg/kg<br>15 mg/kg                | 98%                   | 8/26/97       | 8/26/97 |
| PSA-V14   | 8/25/97         | R9708065-05                            |                  | •                                   |                       | •             |         |
| . •       |                 | C <sub>10-24</sub><br>>C <sub>24</sub> | ND<br>ND         | 15 mg/kg<br>15 mg/kg                | 97%                   | 8/26/97       | 8/26/97 |

<sup>\*</sup>Surrogate used was n-triacontane, acceptance limits 65-135%.

QUALITY CONTROL DATA (Total for Diesel Range):

| Sample ID                   | Result | Acceptable Range | Surrogate<br>Recovery | Acceptable Range |
|-----------------------------|--------|------------------|-----------------------|------------------|
| Method Blank, 082697-E1-BLK | ND     | < 15 mg/kg       | 88%                   | 65-135%          |
| LCS, 082697-B1-LCS          | 83%    | 65-135%          | 81%                   | 65-13 <b>5</b> % |
| MS, R9708065-03 MS          | 81%    | 65-135%          | 96%                   | 65-135%          |
| MSD, R9708065-03 MSD        | 81%    | 65-135%          | 92%                   | 65-135%          |

ND - Not Detected

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**CHAIN OF CUSTODY RECORD ANALYSIS REQUEST AND** 

Reference Document No. 522353 Page 1 of

> Project Name/No.1 Page SAVOR-L Sample Team Members 2 4. MELCAPER Profit Center No. 3 36627/O

Project Manager 47. 61417E

Required Report Date " 4/26/97- 7 Purchase Order No. 608/5778

Project Contact/Phone 12, Apartexoning. Report to: 10 BKYAL CALLEY Lab Contact 9 Elecal Fenciusas) Lab Destination 8 NV ENVIRAL LAB Samples Shipment Date 7 2/25/97 Carrier/Waybill No. 13 L/A

Bill to: 5 TT Company to A

4330 S. VALLY VIRW WILL フて 145 YEAMS

ONE CONTAINER PER LINE

White: To accompany sample: Yellow: Field copy \*See back of form for special instructions 129708045-05 40 SOL 50-59280262 69208065-04 69708065-01 Disposal 22 Record No. 阿 2 Condition on Receipt Requested Testing 20 Program 64, 8015 M Sample Disposal; <sup>25</sup> Return to Client 🔲 787 BOTVETNO TCE/ COST ピスーフで Oste/Time 16 Container 17 Bemple 18 Collected Two Volume 208 1602 \$05 \$05 200 105 2@Boz PLATS TA ह रिटर GLASS TAR 2080 SAMPLE 1430cH 14/52/A \$/es/13 £4/57/2 4/52/4 270 MS/MS/ ON Semple <sup>15</sup> Description/Type Possible Hazard Identification; 24 Non-hazard X Flammable 🗍 SI Soil 501L ろのこ 2016 7/05 Special Instructions: 23 277 アンノーマシム アストンス アントンに P54-V10 Sample 14 Number P5A-411 LAST

Unknown Poison B Skin Irritant

**8** QC Level: 27

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**Archive** 

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